

# **The VULCAN LANGUAGE**



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**THE VULCAN LANGUAGE INSTITUTE  
SHI'OREN T'GEN-LIS VUHLKANSU**

**A Message From Our Director  
Wuh Skladan s'Sha'Khartasu**

Welcome to the Vulcan Language Institute site! This site is the culmination of work I began 23 years ago. This organization began as informal discussions amongst fans in the 1970's and took shape as a group in 1980. Over the years nearly 45 people have participated in one way or another. My original intention was to publish our materials in a format similar to Marc Okrand's 1985 edition of The Klingon Dictionary. We discovered Paramount Pictures and Pocket Books apparently consider the Klingon language boom a fluke and will not support other Star Trek languages. This is too bad, since we have seen that there is clear fan support for Vulcan, Romulan, Cardassian, Bajoran, and even Ferengi languages. This site is presently the only way we have to expose interested fans to our work. Our organization continues to evolve now that we are no longer a "private" group. We are non-profit but are exploring all options.

We continue to add material to our site on a periodic basis, although we slowed down substantially from our rapid growing pace of the first two years. We have a considerable body of work accumulated, since we have carried out serious linguistic, etymological and scientific work over the years. The words in our language have a history and are related to each other, unlike the work of others who randomly created words to fill gaps. We also refuse to use "word generators" and each word has been translated carefully with some thought behind it, especially the scientific and technical terminology. It has taken *many* years of work to build up the thousands of words in our vocabulary and we continue to flesh it out. We have attempted to build up the language from existing root words whenever possible. Our main languages, Traditional Golic Vulcan and Modern Golic Vulcan, have the feel of genuine, natural languages with a history. A dynamic language is much more exciting anyway!

We are excited with the response we have had since we opened our doors to the world on August 1998. We especially thank those of you who passed the word along to others! We hope to continue to be worthy of the praise we have received so far and get better. We are very pleased received many Internet site awards during our first years online. We want to thank these other sites and people for honoring us with their awards! Your votes of confidence are encouraging!

Our online vocabulary and grammar materials are developing. We want to especially work on the grammar materials, so that with the selection of words we have made available so far, the average person should be able to translate some basic sentences to and from either of the main Golic Vulcan languages we focus on. We have put a number of language lessons online and will add more. Other projects are in the works. Someday we will translate works of literature and the entire Bible into Golic Vulcan. I have personally translated the first two chapters of Genesis from The Bible into Golic. These will be put online in the near future for study. Be patient with us, we have lots more coming!

Dif-tor heh smusma.. (Live long and prosper!)



## **An Introduction to Vulcan Linguistics and the Old High Vulcan Languages Traditional Golic & Modern Golic**

***Ragtaya na'Gen-Lis-Tal Vuhlkansu  
eh Gen-Lislar Os-Pid-Vuhlkansu  
Ba-Golik heh Iyi-Golik***

One of the most talked about subjects in Star Trek fandom is alien languages, especially those of the Klingons and Vulcans. Over the past 30+ years, fans of the series have written about a Vulcan language of one kind or another, but most left their work incomplete. Others made things so overly complicated, that few could hope to learn it except the insiders. While the first is understandable for amateur fan linguists, the second is arrogant and not in the spirit of what Gene Roddenberry intended Star Trek to mean. We strongly feel that the effort has to be honest as well as thorough. Our work since 1980 shows that one does not have to sweat blood (red or green) to learn a Vulcan language.

One major problem is that most writers on Vulcan linguistics approached Vulcan from an Earth of the 20th Century point-of-view. Also, they neglected to consider that there must be more than one major language in use on the planet Vulcan. These people acted as if their language was the only "real" version and refused to accept anyone else's work. We have had people react to us this way. Considering the hundreds of languages on Earth, it is beyond a shadow of a doubt that many languages did and still do exist on Vulcan. We all have to remember that the Vulcan languages are *alien* languages. They are *not* related to any of the languages of Earth! Trying to fit them into a human mold is definitely illogical. Our research has been conducted as a professional, scholarly project.

Many years ago, in the early days of fandom, the only examples of any Vulcan language were a handful of words from the series and a couple novels. Many fans set out to create a Vulcan language dictionary and grammar. They "filled in the gaps" by creating words consisting mostly of the letters "S", "T", "P" and "K". Although some of these vocabularies were quite creative, most of them were thinly disguised English or other language words. Much of these early works have disappeared over the years as the authors aged, passed away or official literature made their works "obsolete". Many long-time fans have probably heard of the *Vulcan Language Guide*, a pamphlet published by April Publications in 1977. They were sold via mail and at many conventions over the years. The Vulcan language in that guide is suspiciously similar to Japanese! Several years ago, an acquaintance of ours from Japan, Akira Kawamura, suggested this anonymous work may have been written by a Japanese-American fan! After the release of Star Trek: The Motion Picture and its spoken Vulcan, further work on their material apparently ended. Despite this, it opened up the eyes of many early fans, including that of our founder and several early members.

The first person outside of our group (that we know of by name) who made an effort with the Vulcan language was Katherine D. Wolterink, a frequent contributor to the old *Trek* magazine and the Best of Trek

series of books in the 1980s. In The Best of Trek #10 she presented a Vulcan lexicon. Unfortunately, she insisted on giving it all the articles, pronouns, prepositions, etc., of an Earth language. She twisted the speech from *Star Trek: The Motion Picture* to fit. Vulcan languages developed independently from Earth, so cannot follow the same pattern and structure we have here. Also, she thought that Saavik and Spock spoke Romulan together in *The Wrath of Khan* (The Best of Trek #7). First of all, it would be a major offense for Starfleet officers to speak an enemy language on board a Federation starship, unless training for an undercover mission in Romulan space. Also, the structure of the transcribed speech was not dissimilar from previous examples of spoken Vulcan. Later, in a chat session, Marc Okrand, famous for his Klingon work, stated that it was Vulcan and not Romulan, since he was the one who came up with the spoken dialogue for that movie! Again, Vulcan is an *alien* language and you can't analyze it with a system used for Earth languages. Mark R. Gardner, the founder of the Vulcan Language Institute, submitted several articles to *Trek* back then but none were published before the publication disappeared. One of those articles was expanded into this introduction.

The real break in the study of Vulcan languages came with the release of *Star Trek: The Motion Picture*. In a most wonderful scene, Spock has completed years of the Kolinahr training and is waiting to receive a symbol of total logic for his efforts. We finally are treated to hearing Vulcan spoken in more than single words. Music to the ears for Vulcan fans of *Star Trek*! In the next two movies, we are pleased to have additional Vulcan to enjoy. Later television series episodes and the successful line of novels also added words. We almost decided to ignore the novels, since Paramount Pictures has advised that they do not take anything in the early Bantam or current Pocket books as canon in *Star Trek* chronology or history. Basically, the official line is that all of the novels, unless an "official" novelization of a movie or TV episode, are apocryphal or non-canon. We eventually decided to include some novel words because we felt it was of value in linguistic study. The words are "real" even if the events are considered "fiction" within the *Star Trek* universe!

Why an interest in Vulcan languages? First of all, our founder has been a fan of the show since it first was on. "Amok Time" was a fascinating episode and started him wondering about other facets of Vulcan life, including their language. To Mark, languages have always held a great fascination. Though not exposed to a second language at home, he began to teach himself French at age 9, German at age 11 and Russian at age 16. He also studied Latin, Greek and Middle English. He was an exchange student to Iceland in high school. He learned a lot of Icelandic (little changed from Old Norse) while he was there. It was only logical that he went into linguistics when he joined the U.S. Navy. He completed a year-long Russian course at the Defense Language Institute in Monterey, California, with honors. In the Naval Security Group, he was a transcriber and analyst. He was stationed overseas in Turkey and Scotland. In Turkey he learned enough Turkish to get by in simple conversation; in Scotland he spent so much time off base, that he developed a Scottish accent that confused his fellow Americans! After leaving the service, he started to study such things as Old English and American Sign Language. Mark even spent a year inventing a language that had no irregularities and simplified grammar, based loosely on Old Norse and Old English. It is called Garnik. Should he return to college for a post-graduate degree in linguistics, he plans to use this as the basis of his master's thesis. Other past and



present members of the Vulcan Language Institute are also fans as well as linguists.

Only after having studied a number of languages and learned a lot about Linguistics, can one be anywhere near being qualified to study an "alien" language. One does not need a doctorate to do this, just to be well-read and open-minded. Mark freely admits that he is no expert on all facets of Linguistics and that's where having intelligent and educated colleagues comes into play. A number of people have come and gone in our organization over the years, adding to the project. One of the most important factors when analyzing any language is understanding the people and culture behind the language. In this case, unless you understand the Vulcans, you can't explain their language. Vulcan philosophy and language are tied together somewhat. Logic extends into the language. A linguist studying Vulcan languages, especially those in post-Surak use, must also be something of a philosopher.

Transcription of another language into one's own alphabetic system is not an exact science. Anyone who has tried to convert Chinese, Japanese, Greek, Russian, etc., into the Latin alphabet knows what we mean. It is possible to come close in approximating the sound of the other language, but no system has been found that can represent any and every language. This is true with Vulcan languages. After the first contacts between Earth and Vulcan, a system came into use that was convenient to humans but "embarrassing" to the Vulcans. For example, in English, the letter "Y" can be either a vowel or a consonant, but the corresponding character in Vulcan is only a consonant. To express the "Y" vowel-sound in Vulcan you must use the diphthongal "AI", never "Y". It is most illogical to have two ways to express the same sound. (The Bolsheviks on Earth, after the Communist Revolution, dropped "redundant letters" from the Russian alphabet as unnecessary, for example.) Although a later Federation conference adopted a reformed system for transliterating Vulcan into what had become Federation Standard English, you still often see misspellings such as t'hy'la or ka'athyra. Old habits are hard to break.

Mark didn't really begin to take a serious linguistic interest in Vulcan languages until he saw ST:TMP when it first came out. When the Vulcan Kolinahr Master, T'Sai, opened her mouth and out came Vulcan, he was awestruck! It wasn't until after The Wrath of Khan that Mark began to work with others on a professional analysis of spoken and written Vulcan. He bought the first three movies on the then-superior Beta format and began the arduous task of transcribing the Vulcan spoken in the movies. Since he had done similar stuff in the service, this was old hat. In all, he spent at least 50 hours playing the movie scenes with spoken Vulcan over and over again until he got the phonetic sounds down. Comparing the transcription with facial and lip motions to confirm some vowel and consonant sounds that were harder to hear turned out to be of no use. It turns out that the actors originally spoke in English with exaggerated mouth movements! This was an unexpected surprise. After several years, Mark was finally able to talk to one of the production crew, who informed him that the actors were instructed to exaggerate the way they spoke in order to make it "exotic" sounding. Only later, did the staff dub over the original dialogue with spoken Vulcan for more realism. On one of our pages, you will find a comparison of what was actually said, what was spoken via ADR (ie, voice dubbing), and what the subtitles said. It is very interesting historically, of course, but we will ignore whatever was originally there for our research, because the Vulcan speech and the subtitles are what we consider the "official" version we've based our

work on. As far as we know, we are the only group to know of the exact original dialogue, unless someone has a copy of the shooting script!

Anyway, to make sure that he wasn't hearing things, Mark took an audio cassette of the spoken Vulcan to an acquaintance who was fluent in seven languages and worked as a speech therapist with hearing and speech-impaired people. Mark gave him the tape without telling him what it was and asked him to transcribe it. (If Mark had told him it was from Star Trek at the beginning, he probably would have refused.) Mark was very pleased to see that he achieved nearly identical results. They only disagreed on three sounds out of the Kolinahr sequence sentences. Not bad at all! Mark then told him what the sample was and he ran it through a sound analyzer similar to that which is used for voice print comparisons by law enforcement agencies. The last few questionable parts were cleared up when the tape was slowed down and was analyzed sound by sound.

When Mark first began this Vulcan language project, he saw himself putting out a book similar to the first edition of The Klingon Dictionary, Marc Okrand's wonderful book which started the whole Klingon language ball rolling. We also took inspiration from the newer Klingon Language Institute. We've made a number of attempts over the years at contacting Mr. Okrand and dealing with Pocket Books about this, but eventually gave up the idea after it became obvious there would be no support for anything other than Klingon from the powers that be. Unfortunately, in that online chat session with Marc Okrand many years ago, our founder was unable to get any word in because of all the people on at the time. Amongst our group, we have read every Star Trek novel (even the hard-to-find non-Pocket Books ones), as well as watched all the movies, the original series, the animated series, and the newer TV spinoffs. We've taken all Vulcan words we could find in writing or in speech and recreated a complete grammar and dictionary of what Gene Roddenberry called "Old Vulcan" in his novelization of ST:TMP, but which we gave the general name "Old High Vulcan", because "Old Vulcan" is too easy to confuse with the "Ancient Vulcan" root language. "Old High Vulcan" is actually comprised of two close languages -- Traditional Golic Vulcan (the formal language of Surak and continuing planet-wide language of ceremony) and Modern Golic Vulcan (a less formal and contemporary version of the same language which is used as a regional and clan dialect). It has been a very long project and we are still finding an occasional word here and there to add to the list. At present there are thousands of words in the lexicon we have assembled. Hundreds of these words are direct from television, novels or the movies. Unlike others, who use random generators to make up most new words, we have built up the language from word roots using sound language theory. Only in cases where no obvious roots exist did we create Vulcan-sounding words. In this way we are unique.

An analysis of the language of the movies (Golic Vulcan) proves that it is a compounding language -- small words and roots are combined to make new words. Mark and the early contributors broke the words down to their roots and then built up the additional vocabulary from there. This is an example of linguistic "reverse engineering"! (This is based on a technique similar to that which linguists use to decipher ancient texts from fragments of a language.) Some examples of this compounding are: *khaf-spol* (literally "blood-pump") which means "heart" and *ru'lut-masu* (literally "mouth-water") which means "saliva". A number of Earth and other Federation languages also compound like this (or did at an earlier point).

Additionally, our analysis of the Golic Vulcan languages shows they are more phonetically logical in structure than English. There is an alphabetical character for each unique consonant sound and there are five vowels which can combine into diphthongs. In all, there are three groups of three sets of three letters ( $3 \times 3 \times 3 = 27$ ) in the Vulcan alphabetic system. The letters are in the order of most common to least common at the time of the Vulcan language reforms. Since then, of course, the frequency of letters has changed. Anyone that says that the Vulcan alphabet goes A B D E F G ... has had too much Romulan ale. The actual Vulcan order of their letters is:

**S T P K R L A Sh O U D V Kh E H G Ch I N Zh M Y F Z Th W B**

The digraphs are a single letter in Vulcan, for which no counterpart exists in Federation Standard English. You will also notice that there is no "C", "J", "Q" or "X" in Old High Vulcan. The "J" was dropped during the language reforms suggested by Surak and his followers (it survives in Romulan and several other Vulcan dialects); and "C", "Q" and "X" never existed, although it is possible to see a few Vulcans with names like Xon, which is due to the previously mentioned inaccurate Federation transliteration system. (The famous Vulcan, Spock, has had his name misspelled and slightly mispronounced for most of his adult life. His name was spelled "S-P-O-C-K" because it sounded like that to untrained Federation ears. Since "C" does not exist in Vulcan, his actual correct name would have to be something like Spahk, Spakh, Spahkh, Spakk, Spohk, Spohkh, Spokh or Spokk. But which one? It is hard to be sure, since T'Sai in ST:TMP pronounced it like "SPOHKH" once and "SPAHKH" twice. We think that "Spahkh" is the only one that fits most accurately, especially since it is close to the way that Federation speech has rendered it. Since all Vulcan names had a meaning originally, it is possible that the more formal Old High Vulcan speaker pronounced his name in a more archaic way at one point as a honorific, hence the one-time "SPOHKH" pronunciation, then reverted to the more common "SPAHKH" when her surity of his having successfully completed Kolinahr was in doubt. If you watch the subtle facial expressions of T'Sai in ST:TMP, you can see reverence, pride, doubt, distaste, and disappointment. Not exactly what you'd expect from a Kolinahr Master, but there all the same!) Nevertheless, nearly all sounds of Federation Standard exist in Vulcan. The J-sound in "jam" can be approximated by "dzh", which appears in Old High Vulcan, but the soft TH-sound in "though" does not exist in any known Vulcan language. This is why Vulcans have little trouble mastering Federation Standard. See the grammar section for additional pronunciation guidelines.

Let's talk briefly about the grammar and structure of the language: One thing you notice right away when you compare the spoken language to the subtitles is that the order of Golic Vulcan is quite different. When you break down the sentence, it is obvious that the verb often comes first. This is also the case in some Earth languages. But the verb can also move to show emphasis.

Early on, we spent a lot of time looking for patterns, affixes and repetitions. There is no definite article (the) in Golic Vulcan and indefinite articles (a, an) are rarely used! If you really think about it, these are not absolutely necessary -- we are just used to them. The Russian language, for example, doesn't use them and it is quite expressive. As a language spoken by logic adherents, Golic Vulcan dropped parts of speech that were redundant or unnecessary. Here's where most Vulcan analysts make their first mistake -- they try to find definite articles in Vulcan

speech. Since they are not there to begin with, the analysts' imaginations take over and they create convoluted systems or invent sounds that just aren't there. We chuckle at some of these imaginary parts of speech. "The" is an Earth concept!

The next thing that some Vulcan analysts try to fit in are prepositions. Yes, Vulcan does have prepositional forms but they rarely stand alone. These "prepositions" usually take the form of prefixes. The best example of this occurs in sentences spoken in ST:TMP. There is something that sounds something like "toe Kolinahr" or "tuh Kolinahr" to some fans. This is actually t'Kolinahr. The "t'" is a possessional prepositional part of speech that means simply "of" or "belonging to". (Some people, like Katherine Wolterink and several others, tried to make this "toe" or "tuh" into the definite article "the", which was clever but it does not appear regularly enough to make it work.)

The next thing that some people who analyzed Vulcan did is automatically assume that there has to be a typical English subject-verb-object relationship in Vulcan. Not so! Since the Vulcans are very intelligent and waste of effort is an anathema to them, the subject and/or the object are often dropped from speech when they are implied. Once a subject and/or object is mentioned in conversation, it is not repeated in every sentence unless emphasis is required. Vulcans are more than capable of keeping track of the subject/object currently being discussed.

This omission of words that are implied is even more obvious when it comes to personal pronouns and the like. They exist but are used sparingly because the context of conversation usually implies the possession of an item. If you are talking to another person about yourself and then mention the word for "ball", it is assumed by Vulcans that it is "your own ball", etc. Vulcans grow up with this system and have no problem keeping track of what is whose during the course of a conversation. The grammar section has additional information on this.

There are two forms of verbs in Vulcan -- strong and weak. When the language reforms took place around the time of Surak, there was a strong desire to completely revise the language so that all verbs followed the same pattern. Tradition won out over change in a compromise to approve other changes. This was an example of the newly embraced Vulcan belief in logic and the IDIC philosophy. Weak Verbs are formed by taking a word root and suffixing "-tor" to it. These are very common in the Golic Vulcan languages. Examples are *dif-tor* (to live a long time), *zup-tor* (to labor), and *fal-tor* (to rejoin), all three are direct from movie dialogue. The form is the same for all persons and tenses. Only context says whether it is simple past, present or future tense. Strong Verbs can be regular or irregular. Irregular Strong Verbs can come in any form, like *estuhl* (to touch) or *pstha* (to search), and are usually descended from ancient words. They act the same as Weak Verbs. Regular Strong Verbs always end with the letters "au". In present and simple future tense the verb is the same as the infinitive. In simple past tense, the ending changes to "al". All three types of verbs are treated the same way in perfect past tense and definite future tense. In the perfect past tense, the verb is prefixed with "ki". For example, *sarlah* (to come) and *ki'sarlah* (has come). In the definite future tense of Traditional Golic (the older form), the verb is preceded by the word *fa-wak* (future). For example, *fa-wak pehkau* can mean "will stop" or "shall stop" (literally "future to stop"). In Modern Golic, used by most contemporary speakers, these would be *dungi-pehkau* ("will stop") and *dungau-pehkau* ("shall stop").

We have covered a considerable amount of material in this introduction to the Golic Vulcan languages and our work on Vulcan linguistics. Our challenge to you: Pop your copy of Star Trek: The Motion Picture into a VCR and follow along with the sentences (on the example phrases page) as the Vulcan Kolinahr Master, T'Sai, and her subordinate speak them. If you've studied the pronunciation guidelines we've provided, you should have no difficulty in following it. On this site, we will provide you with the tools to learn some basic Golic Vulcan through lessons. This site will expand and change as time goes by and we receive feedback.

Some members of our group, your fellow Star Trek fans, have spent nearly half their lives on this research. We hope you will find it of great use now and in the future. Someday, perhaps, we'll be able to speak it together. Until that day, "Dif-tor heh smusma.." (Live long and prosper!)

## GOLIC VULCAN-FEDERATION STANDARD DICTIONARY

*"A" to "E"*

### ZHIT-FEIM GOL-VUHLKANSU - TERAYA-EINGELSU >A< na' >E<

This is a major portion of our Golic Vulcan Language vocabulary but not an unabridged reference. All words here have been verified. These words can be used for both Traditional Golic Vulcan and formal Modern Golic Vulcan, except where noted. If you printed or saved a version of these words prior to February 15, 2004, please discard that obsolete material.

The abbreviation (*anc.*) means the word comes from an ancient, often non-Golic, source; (*obs.*) means the word is considered obsolete in contemporary use in the Golic Vulcan languages. All other abbreviations are standard abbreviations that should be easily understood. Also, the Golic Vulcan languages have adopted words from other Vulcan languages, both living and dead.

A'rak -- positive (polarity)  
 Aborau -- boost (v.)  
 Abrash -- flood (n.)  
 Abru' -- over  
 Abru'le -- upward(s)  
 Abru'mesukh -- across (obs.)  
 Abru-mal -- thigh  
 Abru-tor -- erect, put up  
 Abrunaf -- uplink (n.)  
 Abruvenik -- upright  
 Abulau -- increase (v.)  
 Achut -- brush (n.)  
 Af'tum -- kitchen  
 Afer-tor -- establish, found (v.)  
 Afsakau -- declare, proclaim  
 Ahkh -- war (anc.)  
 Ahkhinahru -- ancient battlefield psionic warrior  
 Ahkhsu -- warrior  
 Ahl-tukh -- iridium  
 Ahm -- name  
 Ahn-vahr -- ancient suicide dagger  
 Ahn-wun -- ancient whip-like weapon  
 Ahs -- jaw  
 Aifa -- these  
 Aikum -- moon  
 Aikum-ek'duv -- lunar eclipse  
 Ain -- garment  
 Aisha -- cause (v.)  
 Aitlu -- desire, want (v.)  
 Ak -- soon  
 Ak'spra -- heretic, unorthodox (anc.)  
 Ak'wikman -- surprise (v.)  
 Akarshif -- a long time

Akali -- urgent  
 Akansu -- alien (n.)  
 Akhlami -- among us  
 Alem -- salt  
 Alem-tukh -- sodium  
 Aluk -- fish (n.)  
 An-kharkh -- fear (obs.)  
 An-prele -- pain control meditation  
 Ar'kada -- work (v.)  
 Ar'kadan -- work, chore, task, job  
 Ar'tu -- project (n.)(anc.)  
 Arlanga -- a Vulcan mountain range  
 Arlanga-tukh -- yttrium  
 Aru -- afternoon  
 Aru-yem -- dinner, "afternoon meal"  
 Asal -- morning  
 Asal-yem -- breakfast, "morning meal"  
 Ash'ya -- foot  
 Ash-tor -- step, tread (v.)  
 Ash-vel -- shoe  
 Ashau -- love  
 Ashenau -- raise, elevate  
 Ashiv-tor -- repeat (v.)  
 Ask'er -- army  
 Ask'ersu -- soldier  
 Askital -- military (n.)  
 Au -- them, they  
 Aukh -- gypsum  
 Ausham -- venom  
 Aushfa -- animal (n.)  
 Aushfa-kelek -- barn, stable  
 Aushfa-tal -- zoology  
 Aushfamaluhr -- animal, beastly, savage (adj.)  
 Avon -- hunger (n.)  
 Avon-telik -- hunger (v.)  
 Awek -- private  
 Awek'es -- privacy, solitude  
 Ayau -- tilt (v.)

Ba-tak -- tradition (anc.)  
 Bablivau -- designate  
 Bah-ker -- garden  
 Bahsu -- gardener  
 Bai'elkhrul-akteiben -- attainment  
 Bai-lak-pa -- self-pity (anc.)  
 Bak -- rib  
 Bal -- group, set (n.)  
 Bali -- thick  
 Bali-thonek -- caliper  
 Balkra -- an aromatic casserole (anc.)  
 Banu -- speak of/about  
 Bar-got -- herb  
 Bar-kas -- spice

Bashan -- migration  
Batai -- sturdy  
Bau-tor -- disregard, ignore  
Be' -- beside, near, next to  
Be'es -- nearness, proximity  
Be'hai'la -- guest  
Beglanau -- notice (v.)  
Behsu -- neighbor  
Bek-tor -- wait (v.)  
Belaar -- Summer (season)  
Ben -- to us  
Bes -- drawing  
Bes-tor -- draw (v.)  
Besan -- chart, map, plot (n.)  
Besau -- chart, map, plot (v.)  
Besu -- companion  
Betau -- approach, near (v.)  
Bezhun -- eye  
Bezhun-masu -- tear(s)  
Bikuv -- picture  
Bishau -- swarm, teem (v.)  
Bling -- cymbal  
Bohrau -- cure (v.)  
Bolau -- need (v.)  
Bolaya -- need (n.)  
Bosh -- full  
Boshak -- filling (n.)  
Boshau -- fill (v.)  
Bov -- average (n.)  
Bov-tor -- average (v.)  
Bovik -- average (adj.)  
Brag -- crypt, tomb  
Bral-tukh -- gallium  
Brash'es -- fecundity  
Bru -- lip  
Buhfik -- perfect  
Buhl-, Buhlik -- enthusiastic  
Buhn -- coin  
Buk -- fate, destiny  
Bulom-tukh -- molybdenum  
Burun -- crisis

D'mallu -- large, carnivorous plant  
Da -- pebble  
Da'Nikhirsch -- Eye of Fire, Fire-Eye, ie. the Vulcan Sun  
Da-fek -- axle  
Da-kuv -- circle  
Da-nel -- cycle  
Da-sfek -- axis  
Da-tor -- rotate, turn  
Dafel -- pelvis  
Dah-wak -- twice  
Dahek -- duo



Dahkvalu -- parabola  
Dahl-tor -- detach, disengage  
Dahli -- apart  
Dakh -- cast out (v.)  
Dan -- rotation, turn(ing)  
Danau -- explain  
Danik -- most (adj.)  
Dap -- mercy  
Dap-lan-pa -- children's game similar to Mercy or Uncle  
Dash-tor -- injure  
Datau -- propel  
Dataya -- propulsion  
Dator -- prepare  
Dau -- affect  
Dau-tukh -- hormone  
Dawan -- a person who cannot be counted on  
Daya -- effect  
Dayek -- propeller  
Def -- batch (n.)  
Deik -- file (document)  
Del -- rim  
Desh'rak -- north  
Desh-tukh -- dolomite  
Deshker -- question  
Di'kizh -- exchange (n.)  
Dif-tor -- live long, live a full life  
Din-tor -- miss (v.)  
Dir-, Dirik -- coarse  
Do -- than  
Dohn -- board, plank, playing surface for a board game  
Dok -- brick  
Dol-hinek -- clavicle  
Dom -- so (exclamation)  
Don-ka -- rich, wealthy (anc.)  
Don-tak -- riches, wealth (anc.)  
Donkes-tor -- finance (v.)  
Donketu -- funds  
Donku -- money  
Dor -- honor (n.)  
Dor-tor -- honor (v.)  
Dorli -- honorable  
Dotokau -- fine (v., penalize)  
Drahk -- throat  
Dref -- rake  
Drizh-tor -- itch (v.)  
Du -- you  
Dud -- a small piece of paper, film, etc.  
Duf -- leather  
Duh(-) -- daffy, foolish, goofy  
Duk -- bubble (n.)  
Dukal -- ball  
Dulai -- tough  
Dun -- paper

Dun-zhukusu -- paper-maker  
 Dunap -- book  
 Dunapshausu -- book-binder  
 Dunapsu -- librarian  
 Dunes -- brochure  
 Dungi -- will (v.)  
 Dungau -- shall  
 Duta'es -- diplomacy  
 Dutar -- diplomat (anc.)  
 Dutarik -- diplomatic  
 Dutarik Sklada-Dvin T'Khasi -- Vulcan Diplomatic Courier Service  
 Duv -- shadow, umbra  
 Dvatai -- doctrine, principle, tenet  
 Dvel'nahr -- old concept of "Vulcan-by-choice" (anc.)  
 Dvel-tor -- choose  
 Dvesh-tukh -- brass  
 Dvin-tor -- serve  
 Dvinsu -- servant  
 Dvolau -- set, adjust  
 Dvun -- move(ment)  
 Dvun-tor -- move (v.)  
 Dvunek -- muscle  
 Dvunel -- motion  
 Dwemish ni-an -- training: isolation of identity  
 Dzharel -- "jarel", a small, horned horse-like animal  
 Dzhinau -- refer  
 Dzhy'a'an'Kahr -- "Jia'anKahr", a Vulcan city  
 Dzhyan-tukh -- beryllium

Eh -- and (after a vowel sound)  
 Eik -- wide  
 Eik-vath -- width  
 Eiktra -- plain (n.)  
 Ein -- some  
 Ein-veh -- someone  
 Ein-wilat -- somewhere  
 Eitau -- shear, cut away (v.)  
 Ek, Ek' -- all, total, complete  
 Ek'an -- maximum  
 Ek'anau -- maximize  
 Ek'kal -- sphere  
 Ek'man'es -- safety  
 Ek'mishan -- technology  
 Ek'nosh -- climate  
 Ek'rak -- in all directions  
 Ek'tal -- science  
 Ek'talsu -- scientist  
 Ek'te'kru -- authority  
 Ek'tra -- planet  
 Ek'wak -- forever  
 Ek'zehl -- border  
 Ek'zer -- jewel, gem  
 Ekon -- god

El -- free  
El'es -- freedom  
El'ru -- hand  
El-wak -- leisure  
El-tor -- (set) free (v.)  
Elakh -- cable, line  
Elat -- knob  
Elek -- pointer, hand (of a clock, etc.)  
Elmin -- oil  
Elsaku -- leash, tether (n.)  
Enok-kal fi-lar -- training: processes of definition  
Ertau -- bother, disturb  
Es'merka -- habit(s)  
Esh -- breath  
Esh-tor -- breathe  
Esh-tukh -- oxygen  
Eshak -- "eschak", destructive psychokinetic effects  
Eshikh -- desert  
Eshu'a -- demon  
Estuhl -- touch (v.)  
Etek -- us, we (normal)  
Etwel -- us, we (superior)

**"F" to "I"****ZHIT-FEIM GOL-VUHLKANSU - TERAYA-EINGELSU****>F< na' >I<**

Fa' -- before, in front of  
 Fa-gad -- tomorrow  
 Fa-glan -- foresight  
 Fa-patam -- forehead  
 Fa-wak -- future  
 Fa-wak-glansu -- prophet  
 Faf-kur -- pink  
 Fai-tor -- know  
 Fai-tukh -- knowledge  
 Faik -- data  
 Faika-, Faikaik -- exact (adj.)  
 Fainu -- (the) known (n.)  
 Faka -- hernia  
 Fakovau -- prevail  
 Fal -- hot  
 Fal-tor -- rejoin, put back together  
 Fal-tor-pan -- refusion of body and soul  
 Falek -- heat  
 Falek'es -- temperature  
 Falun -- charge (electrical)  
 Fam -- lack, dearth  
 Fan -- any  
 Fan-veh -- anyone, anybody  
 Fan-wilat -- anywhere  
 Fanet -- ornament (n.)  
 Fas-tor -- cook (v.)  
 Fasek -- oven  
 Fash -- hood  
 Fassu -- cook (n.)  
 Fasei -- from (a superior)  
 Fator -- continue  
 Fau-tor -- ride (v.)  
 Fau-yut -- road, street  
 Feh -- peak (n.)  
 Feihan -- chief, leader, boss, "feyhan"  
 Feim -- list (n.)  
 Feim-tor -- list (v.)  
 Fek -- pole, rod, staff, post  
 Fel -- oar, paddle (n.)  
 Fel-tor -- paddle, row (v.)  
 Felu -- nail (finger, toe)  
 Fen-tor -- seal (v.)  
 Fenul -- seam (n.)  
 Fer-tor -- generate  
 Fereik-tor -- invent, create  
 Fereikan -- invention, creation  
 Fereiksu -- inventor, creator

Ferek -- generator  
 Fezanikau -- forecast (v.)  
 Fezhau -- dissolve  
 Fi' -- on  
 Fihal-tor -- embark, get onto  
 Fihet -- stable (adj.)  
 Fik -- top  
 Fim -- dose (n.)  
 Fir-tor -- brace (v.)  
 Fish-tor -- damp(en), turn down, lower (a setting)  
 Fishek -- damper, dampener  
 Fitor -- carry out, execute  
 Flakosh -- distress (n.)  
 Flan -- intense  
 Flan'es -- intensity  
 Flash -- swamp (n.)  
 Flau -- pollute  
 Fleitau -- strip (away)  
 Flekh -- odd, strange, weird  
 Floku -- spoon (n.)  
 Flutash -- placenta  
 Fnash-vel -- broom  
 Fnashtau -- sweep (v.)  
 Fnau(-) -- tame, domesticated (adj.)  
 Fnesh-tukh -- bromine  
 Fnish-tor -- smell (v.)  
 Fnu-ven -- hate, hatred  
 Fo -- shell  
 Fo-dan -- shield (n.)  
 Fo-wein -- armor, shutter  
 Fokarikau -- reinforce  
 Folau -- react  
 Folaya -- reaction  
 Folu -- turquoise (stone)  
 Fon-ta-nel -- children's game similar to blindman's buff  
 Fonn -- loyal  
 Fonn'es -- loyalty  
 Fori-kol -- Vulcan vegetable stew  
 Fosh -- defense  
 Fosh-lan -- First lieutenant (army/marines); Lieutenant (jg) (naval)  
 Fosh-tor -- defend  
 Foshek -- barrier, barricade  
 Foshinahru -- ancient defensive psionic warrior  
 Foshuhl -- shed (v.)  
 Fu -- gender, sex  
 Fudau -- regard (v.)  
 Fukat -- buffer  
 Fulag-tor -- lead (v.)  
 Fulagsu -- leader  
 Fun-tor -- return (v.)  
 Fun-wun -- ancient boomerang-like weapon  
 Fupa s' -- according to  
 Fusik -- bashful, shy

Gad -- day  
Gaf -- hip  
Gahv -- amethyst  
Gakh -- wart  
Gal-tor -- lean, list (v.)  
Galat -- lean, list (n.)  
Galu -- atom  
Galu-svitan -- (atomic) nucleus  
Galupik -- atomic  
Galutravek -- molecule  
Gan -- shallow  
Gas'rak -- right (direction)  
Gasu -- flux (n.)  
Gau -- pulse, pulsate, throb (v.)  
Gav -- chalk  
Gef -- coast, (sea)shore  
Gehnli -- essential  
Geldau -- hang (v.)  
Gen-lis -- language  
Gir -- root  
Gis-tukh -- arsenic  
Gisam -- poison  
Gish -- expect  
Gishen -- what one expects  
Gishu -- (the) expected (n.)  
Gla-tor -- see (v.)  
Glan -- sight  
Glantau -- observe  
Glantaya -- observation  
Glantokau -- signal (v.)  
Glantokaya -- signal  
Glashau -- scan (v.)  
Glat -- sign (n.)  
Glayek -- camera  
Glazhau -- look (v.)  
Glozho -- elixir (anc.)  
Glu -- deep  
Gluder -- depth  
Gluvau -- show, exhibit (v.)  
Gnal -- tumor  
Gof -- toe  
Goh -- only, merely  
Gol -- high plain region, home to the Kolinahru  
Gol'nev -- aid, help (n.)  
Gol'nevsu -- aide, helper  
Gol-tor -- aid, help (v.)  
Gol-tukh -- rubidium  
Gonaf -- button  
Gosh -- abyss  
Grashau -- abrade  
Grat -- skull  
Grazhau -- grind (v.)

Grazhiv -- dust, powder  
 Grei -- limit (n.)  
 Grut -- agate  
 Gu-vam -- duty  
 Gubi -- stigma  
 Guf -- socket  
 Guhf-, Guhfik -- boring (adj.)  
 Guhl'es -- confidence  
 Guhsh -- debris, garbage, refuse, trash, offal, rubbish  
 Guv -- gender, sex

Ha -- yes, affirmative  
 Ha'fek -- candle(stick)  
 Ha'gel -- light (illumination)  
 Ha'gel-tanaf -- photography  
 Ha'gel-tanafsu -- photographer  
 Ha'kiv -- life  
 Ha'tanau -- give off light  
 Ha'u -- the Living  
 Ha-kel -- home  
 Ha-tor -- live (v.)  
 Haf -- gap  
 Hafau -- remain, stay (behind)  
 Hag-, Hagik -- easy  
 Hahf -- adversary, foe  
 Haifan -- banner, flag, pennant  
 Haishau -- demand (v.)  
 Hakau -- heal (v.)  
 Hakausu -- healer  
 Hal -- car, cart (anc.)  
 Hal-masu -- gasoline, petrol, liquid fuel  
 Hal-tor -- go, proceed  
 Halan -- trip, trek, voyager  
 Halek -- wheel  
 Hali -- vehicle, conveyance  
 Halitra -- fleet, flotilla  
 Halovau -- travel, journey (v.)  
 Halovaya -- journey, travel(s)  
 Han -- nose  
 Haniwah -- Vulcan seed-plant  
 Hanuvau -- flicker (v.)  
 Haran -- legendary "fire beast"  
 Has -- disease  
 Has-bosh -- sick  
 Has-mar -- sickness  
 Has-tal -- medicine (the medical field)  
 Hasam -- toxin  
 Hasau -- sicken, become ill  
 Haseret -- medicine (medication)  
 Hash-tor -- fly (v.)  
 Hashsu -- pilot, flyer  
 Hassu -- healer, doctor, physician  
 Hasu -- a living person/being

Hasuk -- medical (adj.)  
 Hau -- add (v.)  
 Haul-kur -- silver (color)  
 Haul-tor -- reflect  
 Haul-tukh -- silver (metal)  
 Haulan -- reflection  
 Haulat -- mirror  
 Haulek -- reflector  
 Haurok -- a Vulcan bird  
 Hayal -- calm, placid  
 Hayalit -- a small Vulcan burrowing animal  
 Heh -- and (after a consonant sound)  
 Herbosh -- empty  
 Herishek -- blender (n.)  
 Hertak -- baffle (n.)  
 Hesha -- fold (v.)  
 Hi -- but  
 Hif-bi -- to me (superior)  
 Hiktra -- font (type)  
 Hil-tor -- dig (v.)  
 Hilek -- digger, shovel, spade  
 Hinek -- bone  
 Hinek-tukh -- calcium  
 Hirat -- grape-like Vulcan plant  
 His-tor -- strain (v.)  
 Hish-tor -- print, press (down on)  
 Hishel -- stress (n.)  
 Hishsu -- printer (person)  
 Hiya'es -- expertise  
 Hiyasu -- expert (n.)  
 Hiyet -- enough  
 Hizhuk -- quiet (adj.)  
 Ho-rah -- ritual (anc.)  
 Hohl-tor -- shave (v.)  
 Hoknau -- gather, accumulate (v.)  
 Hokni'es -- consciousness  
 Hosh-tukh -- fluorine  
 Hotor-, Hotorik -- formal (adj.)  
 Hu'a -- mythological demon seductress; succubus (anc.)  
 Huhk -- hiccup (n.)  
 Huhsh -- cough (n.)  
 Huhtik -- solid (adj.)  
 Hushau -- gasp (v.)  
 Hutau -- shake, quake (v.)

I, I' -- now  
 If -- which  
 Ifis -- transport(ation)  
 Ifis-tor -- transport (v.)  
 Ifis-ur -- travel tube, "subway"  
 Ifisek -- transporter  
 Igen -- sky  
 Igen-tukh -- atmosphere



Igen-va -- weather  
Ihn -- dense  
Ihn'es -- density  
Ihsek -- fog  
Ihv-tor -- pry (v.)  
Ik-banu -- "the subject of discussion"  
Ikap-tor -- close, shut (v.)  
Ikapirak -- meditation: "closed posture"  
Ikun -- cone (shape)  
Il -- or, nor  
Im-tukh -- argon  
In-du-ka -- small, red-leaved tree found near water (anc.)  
Ip-sut -- conceal, hide  
Irak -- far, distant  
Is -- use (n.)  
Is-fam -- useless  
Is-lof -- function (n.)  
Is-tor -- use (v.)  
Isachya -- hair  
Isan -- usage  
Ish-veh -- that one  
Isha -- also, too  
Istau -- wish (v.)  
Isu-keh -- a type of bush  
It -- tact  
Itaren -- thank (v.)  
Iyi -- immediate(ly)  
Iyula -- culture  
Izau -- shift (v.)  
Izayek -- shifter, shift lever  
Izh -- snow (n.)  
Izh-sahriv -- snowstorm, blizzard  
Izhau -- snow (v.)

**"J" to "L"****ZHIT-FEIM GOL-VUHLKANSU - TERAYA-EINGELSU****>J< na' >L<**

K'ashiv -- often, lit. "with repetition"  
 K'avon -- hungry, lit. "with hunger"  
 K'fai -- through  
 K'fai'ei -- through which  
 K'ha -- alive  
 K'ha-solektau-pthak -- taphephobia  
 K'hu'kru -- babble, hubbub  
 K'kla-min -- in fact, in all actuality  
 K'mag -- thirsty, lit. "with thirst"  
 K'oh-nar -- fear of being completely exposed in a vulnerable situation (anc.)  
 K'puu -- at least  
 K'shatri -- foreign (anc.)  
 K'torr -- completely lacking something (anc.)  
 K'wuhli -- apart, separate (from)  
 Ka -- same, equal  
 Ka'athaira -- "ka'athyra", a Vulcan musical instrument  
 Ka'yed -- axiom  
 Ka-ni-fur -- "ka-nifur", first ritual of maturity  
 Kad -- bump (n.)  
 Kafeh -- slave, servant  
 Kafunik -- random  
 Kahat -- flash (n.)  
 Kahkrus -- district  
 Kahkwa -- alike, similar  
 Kahla -- inertia  
 Kahm -- flesh, meat  
 Kahm-yokulsu -- carnivore, meat-eater  
 Kahr -- city, town  
 Kahr-lan -- general (rank)  
 Kahs-hir -- an ornamental dark stone, usually black (anc.)  
 Kahs-wan -- Vulcan coming-of-age survival test (anc.)  
 Kaht -- garnet  
 Kai -- step, stage (in a process)  
 Kai'tan -- pain and muscle control (anc.)  
 Kai-ros -- children's game similar to hopscotch  
 Kaiden -- stairs, staircase, steps  
 Kaiidth -- "What is, is" (anc.)  
 Kaisu -- sibling  
 Kak -- jar (n.)  
 Kakhartau -- guide (v.)  
 Kal-toh -- Vulcan logic puzzle (anc.)  
 Kal-tor -- allow, let  
 Kala -- thorny plant often used for hedges  
 Kali-tor -- challenge (v.)  
 Kaluk -- ear  
 Kam -- roof  
 Kam-nat -- treason (obs.)  
 Kan -- child

Kan-sorn -- a very deep, self-induced, defensive trance (anc.)  
Kan-tor -- boil (v.)  
Kanok -- every  
Kanok-veh -- everyone, everybody  
Kanok-wilat -- everywhere  
Kap -- bread  
Kapol -- filter (n.)  
Kapol-nafek -- kidney  
Kapralau -- fluctuate  
Kar -- arm  
Kar-an-zhi -- "ka-ranji", a tall cactus-like Vulcan plant (anc.)  
Kar-nef -- elbow  
Kar-nik -- wrist  
Karf -- fragment (n.)  
Karik -- strong  
Karil -- "Kareel", Winter (season)  
Kas'el -- lazy  
Kas-elakh -- vine, tendril  
Kasa -- a blue-green Vulcan fruit  
Kash-naf -- mind-link, mind-meld  
Kash-ral -- sense (n.)  
Kash-tok -- intelligent  
Kash-tor -- sense (v.)  
Kashan -- sensation  
Kashek -- (the) mind  
Kashkau -- mind(s) (eg. in melding, etc.)  
Kashovau -- sensitize  
Kastik -- plant (n.)  
Kastik-goh-yokulsu -- vegetarian  
Kastik-sokasitausu -- plant cultivator  
Kastik-yokulsu -- herbivore  
Kastorau -- encourage  
Kastorilau -- stimulate  
Kasu -- host  
Katak -- placebo  
Katau -- bring  
Katelau -- mate (v.)  
Kath-vuk -- syndrome (anc.)  
Katra -- soul, spirit, essence  
Katravek -- association  
Katrom -- current (elect. & water)  
Kau -- wisdom  
Kau-bosh -- wise  
Kau-tor -- grow or become wise  
Kauk -- even (adj.)  
Kaul-tukh -- vanadium  
Kaunshau -- to unite  
Kaunshaya -- unity  
Kaunshuk -- united  
Ke-ta-yatar -- ancient fighting style designed to kill  
Ke-tarya -- an ancient fighting style  
Kebi -- unit  
Kebitra -- facility

Keimen -- ferocious  
Kel -- building, structure  
Kelek -- house, dwelling  
Ken-tor -- understand  
Kenel -- extinct horse-like animal  
Kenelsu -- a kenel-rider, the knight in chess  
Kep -- gong (n.)  
Kes -- arc  
Kesek -- arch  
Kesazh -- navel, umbilicus, belly button  
Keshtan -- birth  
Kesik -- likely  
Ket'es -- integrity  
Kethelvau -- describe  
Kethtra -- lore (n.)  
Ketilau -- integrate  
Kevas -- medicinal Vulcan herb  
Kevetsu -- ambassador  
Kh'reitekh -- region in the northern hemisphere of Vulcan  
Kha'wal -- joke (n.)  
Khaf -- blood  
Khaf-kur -- a green color (literally "blood green")  
Khaf-spol -- heart  
Khaf-tukh -- copper  
Khar(-), Kharik -- direct (adj.)  
Khara -- Vulcan desert bush with edible pulp  
Kharat -- direction  
Khart-lan -- captain (naval/Starfleet)  
Khartau -- command, direct, manage  
Khau -- rule (v.)  
Khav-kur -- brown  
Kheh -- a type of grain  
Khin -- fame  
Khinik -- famous  
Khluhkau -- choke (v.)  
Khilup -- gel, jelly  
Khoken -- entrance  
Khom -- front  
Khrasau -- discharge (v.)  
Khrash -- violence  
Khrashik -- violent  
Khru -- evening  
Khru-yem -- supper  
Khu'rak -- south  
Khush -- crystal  
Ki' -- have, has (participial)  
Ki'haf -- basket (anc.)  
Ki-fah -- lethal self-defense (anc.)  
Kid -- feather, plume  
Kihsh-kur -- lilac, mauve  
Kiht -- code (n.)  
Kik -- hook  
Kil -- spark (n.)

Kil-tor -- spark (v.)  
Kil-tukh -- flint  
Kilko(-srashiv) -- answer (n.)  
Kilko-tor -- answer (v.)  
Kim-shah -- final, last  
Kin-kur -- yellow, golden  
Kin-tukh -- gold (n.)  
Kinuf -- date  
Kipof -- battery, accumulator  
Kis-ka -- jealous  
Kisev -- document  
Kisheya -- accident  
Kisu -- member  
Kitak -- pen (writing)  
Kitau -- write  
Kitausu -- author, scribe, writer  
Kitek -- dirt, silt  
Kitok-wilat -- elsewhere  
Kitork -- dirty  
Kla-hil-tor -- research (v.)  
Kla-hilsu -- researcher  
Kla-min -- fact  
Klai -- factor  
Klashau -- guard (v.)  
Klau -- harm (v.)  
Klaya -- harm (n.)  
Klehp -- fjord  
Klepovau -- shop (v.)  
Kli -- dart (n.)  
Klimtau -- melt (v.)  
Kling -- not one, no-one, nobody  
Kliton -- arrow  
Klomag -- fortress (anc.)  
Klon(-) -- smart  
Klopau -- describe  
Klosha -- behave  
Kloshai -- behavior  
Klotau -- block (v.)  
Klotaya -- blockage  
Kluchi -- object (v.)  
Kluf -- boot (n.)  
Ko -- female  
Ko-fu -- daughter  
Ko-ka-ashausu -- lesbian (n.)  
Ko-kai -- sister  
Ko-kan -- girl  
Ko-mekh -- mother  
Ko-te'kru -- queen  
Ko-telsu -- wife  
Kobat -- weak  
Kobsu -- dwarf (n.)  
Kodonuhk -- expensive  
Kohl -- emotion-purging mind-exercise

Kohl-tor -- meditate (Vulcan-style)  
Kohv-tukh -- quartz  
Kol -- stew (n.)  
Kol-uchang -- the principle of IDIC (anc.)  
Kolaya -- shock (medical)  
Kolchak -- flute, piccolo, fife  
Kolinahr -- highest adult state of discipline  
Komak -- genus  
Komihn -- human (adj.)  
Konahr -- the feeling of being exposed  
Korsau -- save, preserve, conserve  
Korseiven -- save (by means of)  
Korsovau -- to be saved spiritually  
Koshvar -- disaster  
Koshtri -- race, species  
Kov -- rock, stone (as an individual thing)  
Kov-skrimsu -- stonemason  
Kov-tor -- stone, throw rocks at  
Kov-tukh -- rock, stone (as a material)  
Kovau -- fossilize, become stone, petrify  
Kra-tukh -- antimony  
Krahkra -- "It is nothing" (anc.)  
Krahl -- pressure point  
Kraisek -- cage (n.)  
Krani -- window  
Kras -- a Vulcan plant  
Kras-tor -- paint (v.)  
Krassu -- painter  
Krau -- vent (n.)  
Kravau -- cheat (v.)  
Kreila -- kreyla (a flat bread-like food)  
Krein -- canopy (aero.)  
Krenath -- "shamed one"; half-breed, illegitimate child  
Kresik -- aggressive  
Kril'es -- harmony  
Krish -- bronze (n.)  
Kritashsu -- cyborg  
Krizhiv -- clay  
Kroikah -- "Kroykah"; "Be still", "Stop" (anc.)  
Krol-tor -- praise (v.)  
Kronosh -- Klingon home world  
Kropaya -- fantasy  
Kru -- supervisor  
Kru'minaakh -- appoint (anc.)  
Krup -- boundary  
Krus -- part, piece, segment, section  
Krusek -- fraction (math.)  
Ktorr -- cut off, sever (anc., obs.)  
Ktorr skann -- the formal cutting of family ties (anc.)  
Ku -- palm (hand)  
Ku-li -- valley  
Ku-san -- chair  
Ku-tor -- sit (v.)

Kudau -- bless  
 Kugau -- commit  
 Kuhku -- pus  
 Kuhlau -- compete  
 Kuhlaya -- competition  
 Kuhr -- latch (n.)  
 Kuhsh-tor -- beat (v.)  
 Kuht -- herd (n.)  
 Kukev -- benzene  
 Kulan -- helix, spiral  
 Kulauf -- exception  
 Kum-tor -- catch (v.)  
 Kun-ut -- bond-mate, spouse  
 Kun-ut kali-fi -- ritual "marriage challenge"  
 Kun-ut so'lik -- ritual "marriage proposal"  
 Kunel -- hill, butte  
 Kunli -- happy  
 Kup -- able, can  
 Kur -- color  
 Kur-tor -- color, dye (v.)  
 Kur-tukh -- dye (n.)  
 Kurau -- stain (v.)  
 Kuraya -- stain (n.)  
 Kurek -- pigment(ation)  
 Kuriht -- rash (n.)  
 Kurtra -- spectrum  
 Kus-tor -- ring (v.)  
 Kus-vakh -- bell  
 Kushel -- bird, fowl  
 Kushizhau -- mold (v.)  
 Kusilau -- resonate  
 Kusut -- pain (n.)  
 Kutra -- bank  
 Kuv -- if  
 Kuvish -- bearing (mech.)  
 Kwai -- wild, untamed, undomesticated  
 Kwal se tu -- "Is that really you?" (ancient traditional greeting)  
 Kwal-tor -- frown (v.)  
 Kwes -- afraid  
 Kwi' -- from a distance  
 Kwi'shoret -- call (to)/beckon from far away  
 Kwitau -- push (v.)  
 Kwohk'a -- mythological guardian spirit  
 Kwon-sum -- always  
 Kwul -- hit, strike (n.)  
 Kwul-razh -- crater (impact)  
 Kwul-tor -- hit, strike (v.)

L'Langon -- a Vulcan mountain range  
 L'Langon-tukh -- krypton  
 La, La' -- here  
 La'ash -- axe  
 La'ka-yehat -- available

La'yi -- a type of rug (anc.)  
 Lad -- sole (foot)  
 Laf-tor -- err, make a mistake  
 Laf-tukh -- chlorine  
 Lafosh -- error, mistake  
 Lafot -- defect, flaw  
 Lag -- gum  
 Lahv -- tongue  
 Lairet -- lyrette, type of harp  
 Laitheret -- lytherette, type of harp  
 Lakh -- language (obs.)  
 Lam-tor -- stand (v.)  
 Lamekh -- warm  
 Lan -- rank  
 Lan-tol -- floor; bed (geol.)  
 Lanet -- bottom (n.)  
 Lanka-gar -- a nocturnal predatory bird (anc.)  
 Lap -- tree  
 Lap-gel -- branch  
 Lap-tukh -- timber  
 Lapan -- wood  
 Lapan-skrimsu -- woodcarver  
 Lara -- a Vulcan desert bird  
 Lasha -- arrive  
 Lashan -- arrival  
 Lashark -- a poetic name for sunrise; lit. "he who arrives" (anc.)  
 Lates -- walk (n.)  
 Lau -- may, might  
 Lautuv -- stubborn  
 Le-matya -- large, venomous desert predator  
 Le-su -- frost (anc.)  
 Le-suma -- ice (anc.)  
 Lef'es -- texture  
 Leh-dah-tukh -- Seaborgium  
 Leh-kau-tukh -- Meitnerium  
 Leh-keh-tukh -- Hassium  
 Leh-reh-tukh -- Bohrium  
 Leh-tukh -- Rutherfordium  
 Leh-wuh-tukh -- Dubnium  
 Lehk -- post (n.)  
 Lehm-tor -- throw, toss, heave  
 Leipau -- bake  
 Leipausu -- baker  
 Leitri -- toy (n.)  
 Lek-tukh -- niobium  
 Ler-tukh -- tungsten  
 Lerakh (adj.) -- compressed, compacted  
 Lerash -- hard  
 Les -- target (n.)  
 Lesek -- joint (anatomy)  
 Lesh -- bear, carry  
 Li-fal -- example, sample  
 Li-wun -- lance (n.)



Limein -- mask (n.)  
Limuk -- face  
Linisau -- examine  
Linsu -- cynic  
Lipau -- knife  
Lipitah -- dagger  
Lirpa -- ancient ceremonial weapon  
Lo'uk -- great  
Lof -- reason, purpose  
Lof-torvauk -- constructive purpose  
Lok -- penis, phallus  
Los'rak -- left (direction)  
Loshirak -- meditation: "open posture"  
Lu -- when  
Lufik -- oblique  
Luk -- fungus  
Lushun -- torpedo  
Luvau -- to yawn

**"M" to "R"****ZHIT-FEIM GOL-VUHLKANSU - TERAYA-EINGELSU****>M< na' >R<**

Ma -- have, own, possess  
 Ma-vel -- possession (thing)  
 Maat -- clan  
 Mad -- bracket (n.)  
 Maf-tor -- cry (v.)  
 Mag -- thirst (n.)  
 Magol -- flagon (anc.)  
 Magu -- reel, spindle  
 Mah-tor -- hammer (v.)  
 Mah-vel -- hammer (n.)  
 Mahai -- seizure, convulsion  
 Mahal-tor -- swim (v.)  
 Mahr-kel -- shop, store, market  
 Mahr-tor -- buy, purchase (v.)  
 Mair-, Mairik -- extreme  
 Mak -- joy  
 Makau -- spell (v.)  
 Makh -- glass  
 Makh-salursu -- glass-blower  
 Makh-zhukusu -- glass-maker  
 Mal -- leg  
 Mal-nef -- knee  
 Mal-nik -- ankle  
 Malanu -- pants, trousers  
 Malat -- nature  
 Mamuk -- aid (v.)  
 Man-elakh -- rope  
 Man-tor -- climb (v.)  
 Map -- fen  
 Marau -- drift (v.)  
 Markau -- float (v.)  
 Marom(-) -- excellent  
 Marshak -- raft (n.)  
 Mashau -- water (v.), irrigate  
 Mashek -- bottle, flask, canteen, amphora, ampule  
 Mashen -- tide  
 Mashuk -- bucket  
 Mashulek -- fountain  
 Mashya -- a Vulcan tuberous vegetable  
 Mastevau -- drown  
 Masu -- water, fluid, liquid  
 Masu'er -- navy  
 Masu'es -- wetness, moisture  
 Masu-hali -- boat  
 Masu-nakh -- moisture index  
 Masu-razh -- well (n.)  
 Masu-tukh -- hydrogen

Masu-ur -- aqueduct  
Masu-yut -- waterway, canal  
Masuk' -- enormous, gigantic, gargantuan, huge, mammoth, massive  
Masumok-tukh -- mercury  
Masupik -- wet, damp, moist  
Masutra -- sea, ocean  
Mat -- possession, ownership  
Math -- plate  
Mathra -- disc, disk  
Mau -- much  
Mau-tan -- excess, plethora, overabundance, glut  
Maut -- very  
Mauiyik -- excessive  
Mavau -- play (v.)  
Maz -- grain (of sand, etc.)  
Mazhiv -- sand(s)  
Mazhiv-tukh -- silicon  
Mazhu -- silica  
Mehk-tath -- an integral part (anc.)  
Mehtal-tor -- pass, go past  
Meil -- chemical (n.)  
Meilak -- element  
Mekh -- parent (n.)  
Mekhu -- parents (a mother and a father)  
Men-hil-tor -- investigate  
Men-hilsu -- investigator  
Menal -- cliff  
Mes' -- across  
Mes-tor -- cross (over), go across  
Mesah -- catwalk  
Mesh -- shame (n.)  
Mesakh -- beyond  
Meskarau -- hold (v.)  
Messau -- approve  
Mesukh-tor -- translate  
Mesut -- bridge (n.)  
Mesya -- a children's game similar to "tag"  
Mesyel -- overhang (n.)  
Mesyutik -- opposite (adj.)  
Mev -- pipe, tube, duct  
Mik -- dial (n.)  
Mik-yal -- gauge (n.)  
Min-tor -- glow (v.)  
Min-tukh -- neon  
Mish-tal -- engineering  
Mish-vel -- machine  
Mishek -- engineer  
Mog'es -- volume (math., physics)  
Mohrn -- class (n.)  
Mokev -- metal  
Mokh -- aim (n.)  
Mokh-tor -- aim (v.)  
Mokuv -- ring

Mol-kur -- magenta  
 Molu -- tone (sound)  
 Mon-tor -- drink (v.)  
 Mor -- leaf (n.)  
 Morov -- combat (anc.)  
 Mos -- soft  
 Mu'gel -- dark  
 Mu'yor -- night  
 Mu'yor-yem -- supper, lit. "night meal"  
 Muhd -- club (n.)  
 Muhl -- healthy, well  
 Muhl'es -- health, wellness  
 Muhs -- vapor  
 Mukau -- pour (v.)  
 Mun -- sauce  
 Mutau -- divert  
 Mutaya -- diversion  
 Muzh -- pond, waterhole

Na -- pole (physics)  
 Na'gal -- polaron  
 Na'shaya -- greeting  
 Na'shikh -- advice, council  
 Naf -- link (n.)  
 Nafai-tor -- acknowledge  
 Nafek -- organ (anat.)  
 Nafu'es -- personality  
 Nafuhlau -- frustrate  
 Nagau -- face, confront  
 Naglashau -- recognize  
 Nah-tor -- think  
 Nahp -- thought(s)  
 Nahr -- discipline  
 Nak -- cheek  
 Nakarat -- endeavor (n.)  
 Nakh -- index  
 Nakihtilau -- modulate  
 Nakihtilayek -- modulator  
 Nal-tor -- chew (v.)  
 Nala -- cell (biology)  
 Nala-svitan -- (cell) nucleus  
 Nalatra -- tissue (med., biol.)  
 Naliveh -- alcohol  
 Nam -- existence  
 Nam-tor -- exist, be  
 Namishau -- adjust  
 Nan-tor -- threaten  
 Nantau -- stare (v.)  
 Nar-tor -- accept  
 Narak -- pole (physics, geog.)  
 Narak'es -- polarity  
 Narat do-toh -- child's game: hide & seek  
 Nartau -- embrace (v.)

Nas(-) -- sharp  
 Nash-gad -- today  
 Nashinahru -- ancient offensive psionic warrior  
 Nashiv-tor -- attack (v.)  
 Natel -- module  
 Nati -- differ  
 Natuhn -- box  
 Natya -- different  
 Nau -- moan (v.)  
 Nauf -- epoch  
 Nauk -- sprain (n.)  
 Naul -- feud (n.)  
 Navau -- succeed  
 Navun -- success  
 Nayik -- avid, eager  
 Nazh-kap -- gain (n.)  
 Nazh-tor -- gain (v.)  
 Ne, Ne' -- below, under  
 Ne'hish -- pressure  
 Ne'le -- down(ward)  
 Ne'rak -- underneath, beneath  
 Ne-lan -- cadet, trainee  
 Ne-mal -- shin  
 Ne-seshan -- gravity  
 Ne-shal -- basement  
 Ne-tor -- lower (v.), drop (as in temperature)  
 Ned -- dough  
 Nef -- shelf, terrace  
 Nehau -- decay, rot (v.)  
 Nehg -- belly (n.)  
 Nei -- seed (n.)  
 Neik -- low  
 Neis-tor -- deplete, use up  
 Nek -- squad, patrol, scouting party (military)  
 Nekwitaya -- force (n.)  
 Nel-dath -- pattern  
 Nelau -- diminish, suppress, decrease  
 Nelka -- pedestal, display stand  
 Nem-tor -- take (v.)  
 Nemashau -- dehydrate  
 Nemashaya -- dehydration  
 Nemut -- enemy  
 Nen -- base, foot, foundation  
 Nenem-tor -- deduct  
 Nenikau -- support (v.)  
 Nentu -- frame (n.)  
 Ner-, Nerik -- dependent  
 Nerau -- depend  
 Nerek -- dependable  
 Nes -- drop (n., in temperature, etc.)  
 Nesh-kur -- black  
 Nesh-tor -- cut (v.)  
 Nesh-tukh -- iodine

Neshau -- collapse (v.)  
 Neshuhk -- parasite  
 Net -- scab (n.)  
 Netikidau -- reduce  
 Nev-kur -- maroon (color)  
 Nevasa -- a name for the Vulcan system's sun  
 Nezhak -- chaos  
 Ni -- so, such a  
 Ni-prazh -- stoic, displaying no emotion(s)  
 Nik'el -- convoy, caravan  
 Nikh -- eye (obs.)  
 Nis-tor -- test (v.)  
 Nisan -- test (n.)  
 Nisau -- probe, test thoroughly, examine in detail, analyze  
 Nodolaya -- fixation (chem.)  
 Nohv -- meld (n.)  
 Nok -- concrete (material)  
 Nol-tukh -- carbon  
 Nom -- the philosophical concept of "all" (anc.)  
 Nop -- card (n.)  
 Norn-la-hal -- status change from child to adult (anc.)  
 Nosahp -- amount  
 Nosh -- state, condition  
 Noshau -- stand (v., as, for, etc.)  
 Noshtra -- trait, characteristic  
 Nu'ri -- young  
 Nuf -- case, event  
 Nufau -- offer (v.)  
 Nuh' -- too (adv.)  
 Nuhk -- courteous  
 Nuhk'es -- courtesy  
 Nuhs -- era  
 Nuk -- mode  
 Numo -- extremely small, microscopic  
 Numo-zan-vel -- microscope  
 Nunau -- fit (v.)  
 Nup -- fractal  
 Nus -- parameter  
 Nuv-tor -- flutter (v.)

Odva -- faith  
 Oekon -- God, the Supreme Being  
 Ofereiksu -- the Creator (ie, God)  
 Og -- stitch (n.)  
 Og-elakh -- thread  
 Og-lum -- needle  
 Og-tor -- sew, stitch (v.)  
 Ogsu -- seamster, seamstress  
 Ok -- cam  
 Ok-fek -- camshaft  
 Olau -- feel (v.)  
 Olozhika -- logic  
 Oluhk -- snake

On -- both  
 Opilsu -- chef  
 Oren-tor -- learn  
 Orenau -- study (v.)  
 Orensu -- student, pupil  
 Orfik-kel -- ancestors, forebearers, progenitors  
 Ork -- boom (n.)  
 Orn-tukh -- nickel  
 Orniaga -- irritated (anc.)  
 Os -- old, aged  
 Oshu'a -- mythological volcano spirit  
 Osu -- sir  
 Ot-lan -- captain (army/marines); lieutenant (naval/Starfleet)  
 Ovsot -- complete, total  
 Ovulau -- bow (v.)  
 Oyut -- custom  
 Ozh -- finger  
 Ozh-dukak -- fist (lit. "finger-ball")

Pa, Pa' -- around  
 Pa'ash -- flat  
 Pa'shau -- clear (v.)  
 Pa-tukh -- gas (oxygen, etc.)  
 Pada-tor -- spin, rotate quickly, turn fast  
 Padukau -- roll (v.)  
 Pafam -- deficient  
 Pagun -- duel (anc.)  
 Pahth -- panic (n.)  
 Pahutau -- agitate  
 Paikau -- fluster (v.)  
 Pak -- loss  
 Pak-tor -- lose  
 Pakh -- stroke (n.); Vulcan "hyphen"  
 Pakhaik -- regular  
 Pakhartau -- regulate  
 Pakik -- lost  
 Pakuv -- coil, loop  
 Pal -- age, era  
 Palesh-tor -- endure  
 Palikau -- begin, commence, start  
 Palutunau -- care for, tend, watch over  
 Pamashok -- dike (n.)  
 Pamutau -- bypass (v.)  
 Panaz -- fume  
 Panu -- world  
 Pas-, Pasik -- dull, blunt (adj.)  
 Pash-tor -- trap (v.)  
 Pashov -- dolmen (anc.)  
 Pasu -- table  
 Pasutau -- camouflage, disguise (v.)  
 Patal-tor -- detect  
 Patam -- head  
 Patorau -- process (v.)

Patra -- pool (gene, vehicle, etc.)  
 Patuhl-tor -- encase  
 Pau -- corona, halo  
 Pauk -- round  
 Pavek -- event  
 Pavesh-tor -- happen, occur  
 Pehkau -- stop (v.)  
 Pekh -- feces  
 Pelakh -- filament  
 Pelal -- robe  
 Pen-, Penik -- short  
 Pen-tor -- shorten, curtail  
 Per-ithop -- actor, actress (anc.)  
 Per-tor -- act (v.)  
 Pes-, Pesik -- firm (adj.)  
 Pev -- mat (anc.)  
 Pi' -- small, little  
 Pi'gal -- particle  
 Pi'kahr -- village, hamlet, settlement  
 Pi'lek -- small, little (rare adj., mostly obs.)  
 Pi'maat -- family  
 Pi'math -- saucer  
 Pi'nafek -- gland (anat.)  
 Pi'sukhlop -- figurine, statuette  
 Pi'tenkan -- embryo (MGV)  
 Pid -- high  
 Pidek -- height  
 Pidesh -- exert (anc.)  
 Pidvalu -- hyperbola  
 Pihl -- quark  
 Pihlora -- "pyllora", counselor, guide (anc.)  
 Pil-tor -- prepare food (for eating)  
 Pilash -- river  
 Pilsu -- food preparer, "cook"  
 Pim-tukh -- lithium  
 Pinkau -- earn  
 Pishek -- steel  
 Pitoh -- note (n.)  
 Piyah -- ripe  
 Pla'dor -- back (n.)  
 Pla'rak -- backward(s)  
 Pla-kur -- blue  
 Pla-tor -- back up (v.)  
 Pla-tukh -- cobalt  
 Plak-tau -- "plak tow", Vulcan "blood fever"  
 Plat -- spine  
 Plathau -- consummate (v.)  
 Plesh-tor -- crush (v.)  
 Plokh -- delusion  
 Plomik -- "plomeek", a Vulcan vegetable  
 Plomik-shur -- plomeek soup  
 Pluhk -- vomit (n.)  
 Po -- why



Po' -- after  
 Po-wak -- aftermath  
 Pohshau -- shoot  
 Pok -- ready  
 Pol-tor -- fry (v.)  
 Pon farr -- "mating time" (anc.)  
 Pon-tor -- mate (v.)  
 Poprah -- receive  
 Poshah-, Poshah-, Poshah-, Poshah- -- eventual  
 Potau -- keep (v.)  
 Potun-tor -- sustain  
 Praduk -- front (meteorology)  
 Prahk'es -- ecstasy  
 Pral -- wave  
 Prash -- mucus  
 Praskul-, Praskulik -- flamboyant  
 Pris-tor -- braid (v.)  
 Psal-tukh -- strontium  
 Pseth -- dry  
 Pstha -- search, hunt (v.)  
 Psthan -- search, quest, hunt (n.)  
 Pstheran -- cliche  
 Pthak -- fear, phobia  
 Pu'a -- fairy  
 Pu'gal -- baryon  
 Pu'ulidau -- be marked  
 Pu-tor -- clean (v.)  
 Pudatau -- be propelled  
 Pudor-tor -- be honored  
 Pudva-tor -- be believed  
 Pudvel-tor -- be chosen  
 Pufai-tor -- be known  
 Pufas-tor -- be cooked  
 Pufulag-tor -- be lead  
 Puhku -- amber  
 Puhnk -- crust  
 Puhsh -- foam, froth, spume (n.)  
 Puk-tor -- fight (v.)  
 Pukilko-tor -- be answered  
 Pula'tusa -- be mourned  
 Pulau -- reach (v.)  
 Pulayau -- be present  
 Pulu-kur -- lavender (color)  
 Puma -- be owned  
 Pumeskarau -- be held  
 Puna'shau -- be greeted  
 Punaf-tor -- be linked  
 Punar-tor -- be accepted  
 Punekwitau -- be forced  
 Pupak-tor -- be lost  
 Pupol-tor -- be fried  
 Puragtau -- be introduced  
 Purubai -- be changed

Pusaganau -- be dispersed  
 Pushau -- be broken  
 Puskau-tor -- be digested  
 Puspusau -- be launched  
 Pustau -- be killed  
 Pusvik-tor -- be betrayed  
 Putan-tor -- be given  
 Putanovau -- be equipped  
 Putash-tor -- be controlled  
 Putaurau -- be amazed  
 Puterish-tor -- be combined  
 Putesha -- be awed  
 Puthakau -- be focused  
 Puthrap-tor -- be offended  
 Putrefei -- be martyred  
 Putumau -- be programmed  
 Putus-tor -- be loaded  
 Puv -- swelling  
 Puv-tor -- swell (v.)  
 Puvinem-tor -- be assimilated  
 Puyem-tor -- be fed  
 Puzehl-tor -- be aligned  
 Puzhu-tor -- be heard

Ra -- what  
 Raal -- a region on Vulcan  
 Rada-tor -- spin (a web, yarn, etc.)  
 Radet -- bushing (mech.)  
 Raf -- electric  
 Raf-elakh -- (electrical) wire  
 Raf-tepul -- electricity  
 Ragel-tor -- meet (v.)  
 Ragelan -- meeting  
 Ragtau -- introduce  
 Ragtaya -- introduction  
 Rahm -- thunder  
 Rai -- no (negation)  
 Rak -- position (n.)  
 Rak-tukh -- boron  
 Rakusau -- sting (v.)  
 Ral -- loud  
 Ral'es -- volume, loudness  
 Rala -- wing  
 Ralash -- noise, sound  
 Ralash-bosh -- noisy  
 Ralash-fam -- silent  
 Ralash-tal -- audiology  
 Ralash-tanaf -- music  
 Ralash-tanafsu -- musician  
 Ranau -- train (v.)  
 Ras -- heavy  
 Ras-tukh -- lead (metal)  
 Rau-nol -- refuge, shelter

Rau-tor -- shelter (v.), provide refuge  
Raul -- tool  
Ravot -- insect, bug  
Razh -- hole, pit  
Razhil-tor -- excavate  
Rehek -- trio  
Rekun -- pyramid (shape)  
Reldai -- female religious leader, ruler or princess (anc.)  
Relen -- a plant made into a tea  
Relk -- cupola  
Reshan -- anger, rage  
Reshnek -- angry, enraged  
Ret -- space (room)  
Ri -- not  
Ri-fainu -- the Unknown  
Ri-gishu -- the Unexpected  
Rihamau -- check, verify  
Rihansu -- a Romulan  
Rihk -- edge (n.)  
Rilik -- intermittent  
Rim -- none  
Ripakhaik -- irregular  
Ris -- zero  
Rish-tor -- survive  
Rishan -- survival  
Rislau -- contaminate  
Ritsuri -- rare, unusual, abnormal  
Rivak -- course  
Ro'fori -- information (anc.)  
Ro-kas -- vaccine  
Ro-kasau -- vaccinate  
Ro-kasaya -- vaccination  
Rok -- hope (n.)  
Rom -- good  
Ru'lut -- mouth  
Ru'lut-masu -- saliva  
Rubah -- change  
Rubanau -- change (v.)  
Rubitau -- alter, modify  
Rufai -- benefit (n.)  
Ruhm -- even (not the adj.)  
Rukau -- bounce (v.)  
Ruken -- exit (n.)  
Run -- dream (n.)  
Runem-tor -- grab (v.)  
Runev -- spasm (n.)  
Ruskarau -- grasp (v.)  
Ruskarayek -- forceps  
Ryill -- a Vulcan musical instrument

**"S" to "Z"****ZHIT-FEIM GOL-VUHLKANSU - TERAYA-EINGELSU****>S< na' >Z<**

S'harien -- ancient Vulcan combat sword, lit. "Pierceblood"  
 S'udish -- outside, external  
 Sa -- male  
 Sa'adek -- elevator, lift  
 Sa'akh -- debt  
 Sa'awek -- alone  
 Sa-fu -- son  
 Sa-ka-ashausu -- male homosexual (n.)  
 Sa-kai -- brother  
 Sa-kan -- boy  
 Sa-mekh -- father  
 Sa-te'kru -- king  
 Sa-telsu -- husband  
 Sadalau -- release (v.)  
 Sadahshaya t'Lokan -- Lokan's Schism (often inaccurately called "T'Lokan Schism")  
 Sagan-tor -- distribute  
 Saganau -- disperse  
 Sagau -- pulse, burst out (v., physics, etc.)  
 Saguhsh -- exhaust (n.)  
 Sahr-tor -- run (v.)  
 Sahrafel -- trust (v.)  
 Sahris -- fast  
 Sahriv -- storm  
 Sai-fam -- naked, nude  
 Sai-tukh -- cloth  
 Sailau -- accompany  
 Saizhiv -- lint  
 Sak-tor -- spread (v.)  
 Sak-tukh -- scandium  
 Sakal -- testis  
 Sakat -- mail (n.)  
 Sakathilau -- discriminate (v.)  
 Sakelekau -- evict  
 Saklukhau -- deteriorate  
 Sakurau -- decolorize  
 Sakwitau -- deflect  
 Salan -- wind  
 Salasu -- native (n.)  
 Salatik -- native (adj.)  
 Salur -- blow (v.)  
 Samek -- cold  
 Samev -- flue  
 San -- waist  
 San-zhel -- belt  
 Sanesh-tor -- amputate  
 Sanoi -- please (v., anc.)  
 Sanosh -- pleasure (anc.)  
 Sar-tak -- bed

Sar-tak-pthak -- clinophobia  
 Saran-tukh -- technicium  
 Sark -- beetle  
 Sarlah -- come  
 Sas-a-shar -- a Vulcan desert  
 Sas-tor -- diffuse (v.)  
 Sasak -- diffusion  
 Sasarlah -- come out, emerge  
 Sasau -- trasmit  
 Sasaya -- transmission  
 Sasayek -- trasmitter  
 Saseshau -- pull out, withdraw, extract, evulse  
 Sash -- acid (compound)  
 Sash-masu -- acid (liquid)  
 Sashavau -- expose (v.)  
 Sashidau -- deform  
 Sashik -- acidic  
 Sasnem-tor -- excrete  
 Sasovau -- deflate  
 Sastoraya -- breakthrough (n.)  
 Satalau -- determine  
 Satau -- send  
 Satekhau -- sprout up  
 Satersau -- disconnect  
 Satorvu -- product  
 Sau -- emit  
 Saudau -- appear  
 Saul-tor -- shout, yell (v.)  
 Sav'el -- shirt  
 Savas -- fruit  
 Savau -- diverge  
 Savilau -- deodorize  
 Savlau -- evade  
 Saweinau -- molt, shed one's skin, etc.  
 Sayonotau -- extinguish  
 Sayumak -- spring (water source)  
 Sazehlik -- perpendicular (adj.)  
 Sazh -- vegetable  
 Sef -- dune  
 Seheik -- "declared ones"; pilgrims  
 Sehat -- bear-like animal (often domesticated as a pet)  
 Sehtebuhk -- symbol  
 Sek -- outlet  
 Sele-an-t'li -- secondary level of adult discipline (anc.)  
 Seleya -- a mountain; site of a major ceremonial center  
 Selk -- delta (geol.)  
 Sem-rik -- fascinating  
 Senau -- get up, arise  
 Senepa -- a weapon with poisoned tips (anc.)  
 Sep-wafikh -- agree  
 Seshan -- pull (n.)  
 Seshau -- pull (v.)  
 Seshupik -- magnetic (adj.)

Set'ki -- interesting  
 Set-tor -- drop (v.)  
 Sfek -- point (n.)  
 Sfith -- bitter  
 Sfith-masu -- vinegar  
 Sha' -- one's own, personal  
 Sha'koshtri -- one's own race or species  
 Sha'ti -- cubbyhole, niche, nook, recess  
 Sha-ka-ri -- mythical source of creation (anc.)  
 Shad -- brain  
 Shaf -- cyst  
 Shaka -- fiend  
 Shan-tor -- transfer (v.)  
 Shaht -- end (n.)  
 Shai -- self  
 Shaik -- odd (not even)  
 Shal -- area, region, zone  
 Shal-lan -- colonel  
 Shanai'Kahr -- a Vulcan city  
 Shar -- security (police)  
 Shar'es -- security (condition)  
 Shar-tor -- secure (v.)  
 Sharu -- opening  
 Sharush -- open up, split open  
 Sharushan -- surgery  
 Shasol -- land, country, nation  
 Shau -- break (v.)  
 Shaukaush -- passion(s)  
 Shaula -- self-control, reason(ing)  
 Shavokh -- large Vulcan vulture-like bird  
 Shaya -- break  
 She'rak -- east  
 She-tor -- ascend, rise  
 Shei -- scream (v.)  
 Shek-tukh -- iron (metal)  
 Shel-tukh -- manganese  
 Shen -- ascent  
 Shetau -- become  
 Shi -- place, site, location  
 Shi'dan-abru -- zenith  
 Shi'dunap -- library, lit. "place of the book"  
 Shi'has -- hospital  
 Shi'Kahr -- a Vulcan city  
 Shi'kov -- non-volcanic mountain  
 Shi'kwai -- wilderness  
 Shi'masu -- oasis, "place of water"  
 Shi'oren -- school, academy  
 Shi'Oren t'Ek'tallar T'Khasi -- Vulcan Academy of Sciences (Vulcan Science Academy)  
 Shi'sochya -- Vulcan-type park, "place of peace"  
 Shi'vukhut -- grave  
 Shi'wun -- armory  
 Shi'yar -- Earth-type park, "place of grass"  
 Shi'yavekh -- address

Shi'yem -- dining room, "place of the meal"  
 Shi'yon -- volcano, "place of fire"  
 Shi'yuk -- bedroom, "place of sleep"  
 Shid -- form, shape (n.)  
 Shidau -- form, shape (v.)  
 Shif -- pair  
 Shihvek -- wedge (n.)  
 Shikh-orna -- council  
 Shila -- community  
 Shila'es -- society  
 Shilaik -- social (adj.)  
 Shisau -- hiss (v.)  
 Shitau -- (put into) place, locate something somewhere  
 Shivak -- mass (n.)  
 Shivau -- paralyze  
 Shiyau -- be located  
 Shok -- kiss (n.)  
 Shok-tor -- kiss (v.)  
 Shom-tor -- to rest  
 Shon-ha-lohk -- engulfment; feeling of being "head over heels" (anc.)  
 Shonau -- engulf  
 Shoret -- call (out) to  
 Shrau -- fray (v.)  
 Shu-pal -- source  
 Shu-tukh -- uranium  
 Shuhk -- slime  
 Shul -- position (n.)  
 Shur -- soup  
 Si-, Sik -- outer (adj.)  
 Sikar -- Spring (season)  
 Sis-tor -- squander  
 Siselau -- ferment (v.)  
 Siyah -- almost  
 Ska'gal -- neutrino  
 Skaf -- dais, platform, stage  
 Skahal-tor -- get off of, disembark, etc.  
 Skahan -- curtain (n.)  
 Skamau -- attract  
 Skan -- proof  
 Skan-tor -- prove  
 Skann -- all of one's blood relatives (anc.)  
 Skasau -- treat (v., med.)  
 Skau-tor -- digest (v.)  
 Skehl -- groove (n.)  
 Skek -- wound  
 Skichra -- epilepsy (anc.)  
 Skil -- win, victory  
 Skilsu -- winner, victor  
 Skish-tor -- slide, slip (v.)  
 Skladan -- message  
 Skladasu -- messenger  
 Skonn -- surface  
 Skrashau -- erode

Skrim -- carving  
Skrim-tor -- carve  
Skrimmek -- lathe  
Skrol -- errand, mission  
Sku -- sill  
Skunap -- diploma  
Slah -- fiber  
Slakh -- nausea  
Slau-tor -- plate, chrome (v.)  
Slau-tukh -- chromium  
Slokh -- starch (n.)  
Slor -- sweet  
Slor-tukh -- sugar (n.)  
Sluk(-) -- fresh (adj.)  
Smashau -- drain (v.)  
Smertau -- harass, bug, pester, vex  
Smol -- alga  
Smusma -- prosper  
Smusma'es -- prosperity  
Sna-lok -- mosaic  
Sna-lok-zhuksu -- mosaic-worker  
Snagel-tor -- encounter (v.)  
Snaipau -- crumble (v.)  
Snauk -- fork (n.)  
Snazh(-tukh) -- plasma (physics)  
Snem-tor -- remove  
Snertau -- interfere  
Snesh-tor -- cut out, excise  
Snet -- fulcrum  
Snishau -- erase (v.)  
Snuhglau -- gargle (v.)  
So-resh -- madness  
Sochya -- peace  
Sohk'es -- elegance  
Solai -- field (cultivated)  
Solek -- soil  
Solektra -- ground, land  
Solektra-besan -- map, chart  
Solektra-hutaya -- earthquake  
Son-ha-lohk -- romantic love (anc.)  
Sos'eh -- maybe, perhaps, possibly  
Sov -- air  
Sov-masu -- rain  
Sov-masu'es -- humidity  
Sov-pidek -- altitude  
Sov-tukh -- nitrogen  
Sovash -- alkali, base  
Sovek -- fan (cooling)  
Spa'ash -- disgust  
Spa-tor -- conduct (v.)  
Spa-yorna -- "Spyorna", Vulcan High Council  
Spahk -- claw, talon  
Spathel -- canyon



Spen-tor -- jump, leap (v.)  
Spes -- voice  
Spes-fam -- mute  
Spis-tor -- dip (v.)  
Spitau -- bore, drill (v.)  
Spo-kur -- dark blue  
Spoh-tor -- fade (out), become pale  
Spoh-tukh -- potassium  
Spol -- pump (n.)  
Spolek -- experiment (n.)  
Sporiben -- exclaim (v.)  
Sposh-tor -- erupt  
Sprah -- indeed  
Spunau -- outweigh  
Spunek -- valve  
Spusau -- launch (v.)  
Srashiv -- achievement  
Sri'Kahr -- a Vulcan city  
Stal-tukh -- cadmium  
Stan-tor -- exude, ooze (v.)  
Star-krus -- statement  
Stariben -- speak (a language)  
Starun -- speech  
Stau -- kill (v.)  
Steheht -- type of old Vulcan poetry  
Stek -- clamp (n.)  
Stivan -- phenomenon  
Stonn -- animal horn, antler  
Storau -- develop  
Stron -- escape (n.)  
Stukh -- (outer) space  
Stukhtra -- universe  
Su'us -- number  
Su-lak -- third party (person)  
Sudef -- womb, uterus  
Sudef t'Yon -- "The Womb of Fire"  
Suk -- big, large  
Sukhlop -- statue  
Sunil -- pan (n., anc.)  
Sura'Kahr -- a Vulcan city  
Sut -- ache (n.)  
Sutorik -- artificial  
Sutra -- crew, staff, faculty  
Svai -- flower (n.)  
Svai-zehlausu -- floral arranger  
Svai-zhukusu -- florist  
Svail -- fragrance  
Sval -- lesion  
Svekh -- cartridge  
Svep -- door  
Svi' -- between, among, inside of  
Svi'udish -- inside, internal  
Svi-shau -- interrupt

Svi-tor -- enter  
Svi-wak -- interval  
Svik-tor -- betray  
Svitan -- center, middle, core  
Svizh-tor -- pause (v.)  
Swana -- a rare and precious item

T'an -- rod used in kal-toh puzzle (anc.)  
T'dahsu -- twin  
T'forti -- finally  
T'hai'la -- "t'hy'la", brother, friend, pal, lover  
T'kausu -- quintuplet  
T'kehsu -- quadruplet  
T'Khasi -- the native name for the Vulcan homeworld  
T'Khut -- a name for the twin world of T'Khasi  
T'Lai-tukh -- zirconium  
T'Lokan -- see "Sadahshaya t'Lokan"  
T'rehsu -- triplet  
T'Rukh -- a name for the twin world of T'Khasi  
T'Rukhemai -- a name for T'Rukh's moon  
T'san s'at -- a process of eliminating emotions (anc.)  
T'shehsu -- sextuplet  
T'stehsu -- septuplet  
Ta'a -- "taal", traditional Vulcan hand salute  
Ta'bek -- drug  
Ta'gal -- neutron  
Ta'raf -- neutral  
Ta'Valsh -- an ancient Vulcan port facility  
Tab-ma -- late  
Tabakau -- regain  
Tadek-adir -- absent  
Tah -- unobtainable  
Tahal -- light (weight)  
Tahal-tukh -- helium  
Taik -- hat, cap  
Takau -- beckon  
Takov -- pretty  
Takurek -- prism  
Tal t'li -- first meditation of adult training  
Tal'oth -- Vulcan youth desert survival ritual  
Tal-kam -- dear  
Tal-muv -- key  
Tal-tor -- find, discover  
Tala -- value (n.)  
Tala -- find, discovery  
Talik -- scientific  
Talu -- neck  
Talu-shaya -- "tal-shaya", execution by breaking the neck  
Taluhk -- precious, valuable  
Taluhk-tukh -- platinum  
Talupau -- estimate (v.)  
Talvot -- bacterium, germ  
Tam-tor -- dance (v.)

Tamsu -- dancer  
 Tan-tor -- give, donate  
 Tanaf -- art  
 Tanafsu -- artist  
 Tangu -- ideal (n.)  
 Tanilau -- provide, supply  
 Tanovau -- equip, provision, fit out  
 Tar-tor -- say  
 Tasau -- leak (v.)  
 Tash -- control (n.)  
 Tash-tor -- control (v.)  
 Tashal -- (control) console  
 Tashek -- controller  
 Tasmin -- "Tasmeen", Autumn (season)  
 Tau -- fever  
 Tau-kath -- "fever healing" (anc.)  
 Tauf -- ridge (geol.)  
 Tauk -- cave  
 Taul-tor -- dive (v.)  
 Taurau -- amaze  
 Tauvolau -- incite, foment  
 Tav -- rate (n.)  
 Tavat -- ratio  
 Tcha -- curl (n.)  
 Tchakarya -- "chkariya" or "ch'kariya", a ferret-like predator and scavenger  
 Tchas -- warp  
 Tchef -- vortex  
 Tchol -- bay  
 Te' -- structure  
 Te'Rikh -- a Vulcan city  
 Te'koshfet -- architect (anc.)  
 Tedvun-tor -- flex (v.)  
 Tedvunik -- flexiable, pliable, pliant  
 Tefuk -- deliver (v.)  
 Tehk -- sprout (n.)  
 Tehnat -- against  
 Tehnau -- resist, stand up against  
 Tehrai -- goal  
 Tehs -- deceit, fraud, deception, trickery  
 Tehs-tor -- deceive, trick (v.)  
 Tehvar -- danger  
 Tehvarik -- dangerous  
 Tekeret -- deviation  
 Tekla -- a type of wood  
 Tel -- bond (n.)  
 Tel-tor -- bond (v.)  
 Tela'at -- elder (title of respect for advanced age Kolinahru)  
 Telsu -- one who is bonded, married person  
 Telv-tor -- read (v.)  
 Temep -- gate  
 Temok -- wall  
 Ten -- less  
 Ten-kan-bu -- embryo (TGV)

Ten-mal -- early  
 Tenah -- blame (v.)  
 Tenkan -- fetus  
 Teporilau -- excite (v.)  
 Tepul -- energy, power  
 Terau -- join together, fasten  
 Teraya -- (con)federation  
 Terek -- affix (n.)  
 Teresh-kah -- Vulcan "silver-bird" (anc.)  
 Teretau -- converge  
 Teretek -- coupler  
 Teretuhr -- together, united, fused  
 Terish-tor -- combine (v.)  
 Terk -- bolt (n.)  
 Terpaya -- adhesion  
 Terra -- Earth  
 Terrasu -- Earthling, Terran (n.)  
 Terrupik -- earthly, earthling (adj.)  
 Tersau -- connect  
 Tersek -- buckle (n.)  
 Tershau -- collect  
 Tersu -- partner (n.)  
 Teruk -- corner (n.)  
 Tesha -- awe (v.)  
 Tesihk -- albumin  
 Teslau -- repair, fix (v.)  
 Tessaya -- addiction  
 Tetalaya -- friction  
 Tetau -- rub (v.)  
 Tev'rak -- west  
 Tev-tor -- fall, descend; die  
 Tevakh -- death  
 Tevan -- descent, fall  
 Tevik -- dead  
 Tevun -- year  
 Thakau -- focus (v.)  
 Thal -- loose  
 Thal-tor -- loosen  
 Thalv -- page, sheet  
 Thanai -- adopt  
 Thas -- milk  
 Thasau -- lactate  
 Thasek -- breast (TGV)  
 Thav -- cone (plant)  
 Thek -- drop (rain, tear, etc.)  
 Thel'a -- fat (n.)  
 Theris -- a Vulcan herb (often made into tea)  
 Thes-tor -- engrave  
 Theshau -- scrape (v.)  
 Thezh-tor -- drip (v.)  
 Thinoi -- waste (v.)  
 Thol -- noble (adj.)  
 Thon-tor -- measure (v.)

Thonau -- anguish (v.)  
Thonek -- meter (device)  
Thorau -- burst (v.)  
Thorshau -- explode (v.)  
Thorshau-tukh -- explosives  
Thorshaya -- explosion  
Thorshek -- bomb  
Thorshun -- cannon  
Thrakh -- gneiss  
Thrap -- offense  
Thrap-tor -- offend  
Thresh-tor -- split, cleave  
Threshan -- speed, velocity  
Throks -- give, share (with a superior)  
Thruhk(-) -- foul, offensive, loathsome, repulsive  
Thuhk -- cheese  
Thurai -- next  
Ti -- lay, lie (down)  
Tik -- each  
Tikopah -- independence  
Tilau -- perforate, pierce  
Tilek -- spear (n.)  
Timut -- heel  
Tin -- layer (n.)  
Tinga -- dimension (measurement)  
Tipan -- shoulder  
Tish -- to you  
Tishau -- like (v.)  
Tizh-tor -- enjoy (v.)  
Tlingansu -- Klingon  
To'ovau -- to grow  
To-gav -- law  
To-pal -- coat (n.)  
Tobeg-tor -- excuse (v.)  
Todvel-tor -- elect (v.)  
Togolau -- enforce  
Tok-ti -- fine  
Tol -- gene  
Tolasau -- clone (v.)  
Tolik -- genetic  
Toltra -- chromosome  
Tomasu -- kinsman, relative  
Tor -- do, make (v.)  
Tor-tal -- physics  
Tor-vel -- mechanism  
Tor-yatal -- "tor-ia-tal", challenge to death (anc.)  
Tor-zhit -- verb  
Torai -- action  
Toran -- activity  
Toranik -- busy  
Torek -- process (n.)  
Torekra -- system  
Torsh -- feat

Torvau -- build, construct, produce (v.)  
 Torvukh -- sport (n.)  
 Tostau -- execute, put to death  
 Totsu-k'hai -- "totsu'k'hy", a disabling nerve pitch (anc.)  
 Tovek-tukh -- germanium  
 Tra -- mass, body, accumulation, assemblage  
 Tra-lan -- major (army/marines), lieutenant commander (naval/Starfleet)  
 Trahokna -- institute  
 Trahokna t'Ek'Mishan T'Khasi -- Vulcan Institute of Technology  
 Trak -- pillow (n.)  
 Tral -- surge (n.)  
 Tran -- order (command) (n.)  
 Tran-tor -- order (to do something) (v.) Tranush -- patience  
 Trasha -- depart, leave  
 Trau -- honest  
 Trau'es -- honesty  
 Travek -- group, set, platoon  
 Traveksu -- sergeant  
 Travilau -- compile  
 Trefei -- martyr (v.)  
 Trefem -- martyr (n.)  
 Treit -- flock (n.)  
 Tren-tor -- master (v.)  
 Tres-tor -- rip, tear (v.)  
 Tresahk-tor -- rip into pieces, rend, shred (v.)  
 Treshau -- crack, split open (v.)  
 Tri-zhar -- an invasive procedure (anc.)  
 Trufemu -- martyr (n.)  
 Tsa -- curve (n.)  
 Tsat -- secret (n.)  
 Tsatik -- secret (adj.)  
 Tsau-tukh -- zinc  
 Tsek -- column (n.)  
 Tselaya -- mutation  
 Tsokal -- territory  
 Tsorau -- store, cache, save up  
 Tsulaya -- amplitude  
 Tsuru -- regular, common, usual, normal  
 Tsurkan-, Tsurkanik -- consistent  
 Tu -- you (after a vowel sound)  
 Tu'ash -- to open  
 Tu-lan -- Vulcan breathing exercise  
 Tuf -- chest (anat.)  
 Tuh -- stack, pile, heap (n.)  
 Tuhk -- dent (n.)  
 Tuhllar -- contents  
 Tuhsau -- cross (v.)  
 Tukh -- material, stuff, substance  
 Tum-tor -- count, add up, tally (v.)  
 Tum-vel -- computer  
 Tumak -- (computer) program  
 Tumau -- program (v.)  
 Tun -- care (n.)

Tupa -- lesson  
 Tus-tor -- load (v.)  
 Tusa -- weep (v.)  
 Tushat -- grief  
 Tusla -- cargo  
 Tusok -- exercise (n.)  
 Tvai -- mean (v.)  
 Tvelkau -- tune (v., radio, musical instrument, etc.)  
 Tveshu -- origin  
 Tvi-shal -- chamber, room, atrium  
 Tvihanek -- interface (n.)  
 Tvik -- inner (adj.)  
 Tvissek -- reflex  
 Tvitaya -- lining  
 Tviyan -- core (n.)

U'rak -- negative (polarity)  
 Ub -- dome  
 Uf -- how  
 Ugau -- promise (v.)  
 Uk -- digit (finger or toe)  
 Ukhru-vishan -- affair  
 Ukralau -- crawl (v.)  
 Ukraluk -- reptile  
 Ulef -- half  
 Ulidar -- mark, scar, blotch  
 Um -- tip, point  
 Un -- digit (math.)  
 Ur -- tunnel  
 Uralau -- sing (v.)  
 Uralausu -- singer  
 Urgam -- effort  
 Urozh -- crop(s)  
 Ushkek -- basalt  
 Utan -- compassionate  
 Utan'es -- compassion  
 Utvau -- reason (v.)

Uz -- fee  
 Uzh -- new  
 Uzhau -- refresh, renew

V'Shar -- the Vulcan Security Force (anc.)  
 Va'amau -- mimic (v.)  
 Va'asau -- copy (v.)  
 Va'ashiv -- again  
 Va'num -- search (obs.)  
 Va'prah -- replace  
 Vah -- as (comparitive)  
 Vahl -- grant, bequeath  
 Vai -- holy  
 Vaikar-, Vaikarik -- devout  
 Vaikau -- devote

Vak-zehl -- X-ray (n.)  
Vakav'es -- frequency  
Vakhik -- bold  
Vaksurik -- beautiful  
Val -- chip (n.)  
Valit -- a Vulcan burrowing animal  
Vam -- esteem (n.)  
Van-kal -- ceremony (anc.)  
Van-razh -- mine(shaft)  
Van-tor -- mine, excavate, dig up  
Van-tukh -- ore  
Var -- tale, story  
Var-tor -- tell, relate  
Variben -- talk (v.)  
Vas-tor -- relieve  
Vash -- terror  
Vashau -- destroy  
Vat -- repository, temporary storage  
Vath -- other  
Vathru -- otherwise  
Vau-tukh -- titanium  
Vaukh -- calf (leg)  
Vaunah -- hesitation  
Vava -- echo (n.)  
Vazgau -- steal  
Vazh -- urine  
Vazh-sa'haf -- bladder  
Ved -- quite  
Vedik -- weed  
Vedrah prah -- acceptance & negation of pain & discomfort (anc.)  
Vek -- (egg) yolk  
Vel -- thing, item  
Vel-zhit -- noun  
Velek -- structure (biol., chem., etc.)  
Velik -- simple, basic  
Veltra -- property  
Ven-dol-tar -- philosophy (anc.)  
Venek -- trend (n.)  
Venlinahr -- normal state of adult discipline  
Ver-tor -- edit (v.)  
Ves -- kind, type  
Veshau -- elapse, pass (v.)  
Vesht -- past  
Veshtau -- experience (v.)  
Veshtaya -- experience (n.)  
Vesuhl -- bitumen (anc.)  
Vet -- doubt (n.)  
Vi -- who  
Vi-kwitaya -- intrusion  
Vihk -- blob, clod, clot, glob, etc.  
Vihpan -- block (n.)  
Vikau -- warn  
Vikuvau -- encircle, surround



Vil -- odor  
Vimashau -- liquify  
Vin'es -- maturity  
Vin-tor -- mature (v.)  
Vinem-tor -- assimilate  
Vinik -- mature(d) (adj.)  
Vipladau -- record (v.)  
Vis -- grid, net, web  
Visak'a -- legacy (anc.)  
Vishitau -- embed, put into place  
Viskulan -- matrix  
Visolektau -- bury  
Visolektaya -- burial  
Visovau -- inflate  
Vita -- unless  
Vitaya -- stasis  
Vitik -- static (adj.)  
Vitush -- ash(es)  
Vivotaya -- infection  
Viyik -- even (not odd)  
Vla -- side (n.)  
Vlavla -- parallel (adj.)  
Vlau-tor -- stink (v.)  
Vlei -- bellow (v.)  
Vlitau -- pay (v.)  
Vluhn -- drum (n.)  
Vlur -- howl (v.)  
Vohrau -- brake (v.), slow to a stop  
Vohris -- slow  
Vohtau -- delay (v.)  
Vokau -- remember  
Vom-tukh -- limestone  
Vuhnauk -- divers, various  
Vulu -- angle (n.)  
Vulumau -- bevel (v.)  
Vup -- feint (n.)  
Vravshau -- fail  
Vravshaya -- failure  
Vre-kasht -- exile, outcast (anc.)  
Vu -- you (reflexive)  
Vugau -- to fester  
Vuhkansu -- a Vulcan  
Vuhnau -- vary  
Vuhnaya -- variation, diversity  
Vukh -- hull, fuselage  
Vukharat -- vector (n.)  
Vukhut -- body  
Vul -- angle, slant, slope  
Vunai -- field (electromagnetic, etc.)  
Vus -- echelon  
Vutau -- call (v.)  
Vuzh -- smoke (n.)

Wa' -- especially  
Wadashau -- perspire, sweat (v.)  
Wadi -- skin  
Wafau -- deny  
Wahtau -- insult (v.)  
Wak -- time  
Wak-vel -- clock  
Wakli -- in what manner, in what way  
Wal-tukh -- magnesium  
Wan -- cloud  
Wan-kur -- white  
Waneti -- flowering plant with tiny white blossoms  
Wat -- problem  
Watosh -- ugly  
Wauk -- turbulence  
Wef -- scale, flake  
Weh -- more  
Weh-rom -- better  
Wehk -- many  
Weht -- more  
Wehu -- plural  
Wei-, Weik -- easy  
Wein -- cover (n.)  
Weizehl -- series  
Wek -- phase (n.)  
Wel -- nerve (medical)  
Wesh-tor -- streak (v.)  
Wi -- yet  
Wilat -- where  
Wimish -- to be called/named  
Wis -- tense (grammar)  
Wivel'es -- tolerance  
Wivelau -- tolerate  
Woht -- funnel (n.)  
Wonil -- narrow, strict  
Worla -- never  
Wu -- long  
Wu-vath -- length  
Wufik -- tight  
Wufkau -- tighten  
Wugau -- confirm  
Wuh -- a, an  
Wuh'ashiv -- another  
Wuh-lan -- second lieutenant (army/marines); ensign (naval/Starfleet)  
Wuh-thurai -- the next one  
Wuh-wak -- once  
Wuhkuh -- one (the number)  
Wuk -- canker (sore)  
Wun -- weapon

Ya'akash -- ask  
Ya'shakhuv -- age  
Yad-tukh -- thallium

Yadan -- edition  
Yahv-tor -- borrow  
Yai -- flame (n.)  
Yak -- lymph  
Yal -- indicator  
Yar -- grass  
Yar-kur -- a green color  
Yar-tukh -- copper ore  
Yaret -- visit (v.)  
Yarmok -- salad  
Yartik -- grain  
Yatau -- father a child, sire (v.)  
Yauluhk -- important  
Yausha -- expire (v.)  
Yaut -- proud  
Yeht -- correct, right, real, true  
Yeht'es -- truth, reality  
Yeht-daya -- effective  
Yeht-fam -- wrong, incorrect, false, untrue  
Yeht-gav -- justice  
Yeht-urgam -- efficient  
Yekuhl -- moss  
Yel -- star  
Yel-ek'duv -- solar eclipse  
Yel-Halitra -- Star Fleet  
Yel-pi'maat -- solar system  
Yel-pohshaya -- solar flare  
Yel-sposhan -- solar prominence  
Yem -- meal  
Yem-tukh -- food(stuffs)  
Yen-tor -- forget  
Yerak -- bowl  
Yesik -- probable  
Yetur -- drive (v.)  
Yi -- then  
Yidor-tor -- format (v.)  
Yokul -- eat (v.)  
Yokulsu t'Katralar -- "The Eater of Souls" (myth.)  
Yol -- chitin (insect shell, etc.)  
Yon -- fire  
Yon-dukal -- sun  
Yon-kur -- red  
Yon-tor -- ignite, set on fire  
Yon-tukh -- phosphorus  
Yonag -- torch (flaming only)  
Yonan -- ignition  
Yonshau -- inflame  
Yontau -- burn (v.), combust  
Yonuk -- quarter (1/4)  
Yorku -- guts, innards, viscera  
Yu-mur -- egg  
Yuk-tor -- sleep (v.)  
Yuk-vel -- mattress

Yukal -- ovary  
 Yukau -- ovulate  
 Yumau -- flow (v.)  
 Yush-tukh -- polonium  
 Yut -- path, trail, way  
 Yuvik -- oval, elliptical  
 Yuzhat -- caution

Za' -- behind  
 Za-gad -- yesterday  
 Za-glan -- hindsight  
 Za-vel -- relic  
 Zadau -- forbid  
 Zahal-tor -- follow  
 Zahv-tor -- taste (v.)  
 Zakar -- damage  
 Zalu -- enzyme  
 Zam -- few  
 Zama-tor -- spy (v.)  
 Zamasu -- spy (n.)  
 Zan-tor -- view (v.)  
 Zaprah -- retrieve, get back, fetch  
 Zarahk-tor -- break into pieces, shatter  
 Zaseshau -- drag (v.)  
 Zasuhl -- granite  
 Zat(-) -- acute  
 Zat'es -- acuity  
 Zavikau -- trace, track down  
 Zeh -- beam, girder (n.)  
 Zehik -- straight  
 Zehl -- line, row, (-)beam  
 Zehl-tor -- align  
 Zehlanau -- sequence (v.)  
 Zek -- order (birth, seating, etc.)  
 Zhagra -- game  
 Zhai-kur -- gray  
 Zhai-tukh -- tin  
 Zhar -- rust (n.)  
 Zhar-kur -- orange  
 Zhar-tor -- rust (v.)  
 Zhel -- strap, band  
 Zhel-lan -- lt. colonel (army/marines); commander (naval/Starfleet)  
 Zherka -- emotions  
 Zhil -- term (n.)  
 Zhis -- steam (n.)  
 Zhit -- word  
 Zhit-dunap -- dictionary  
 Zhit-feim -- vocabulary (list)  
 Zhu-fam -- deaf  
 Zhu-tor -- hear (v.)  
 Zhu-yehat -- audible  
 Zhuk-om -- factory (anc.)  
 Zhuk-tor -- fabricate

Zihik -- blurred, fluzzy  
Zish-tor -- slide (v.)  
Zo -- no matter (how)  
Zon-tukh -- barium  
Zud -- tooth  
Zud-halek -- gear (mech.), lit. "tooth-wheel"  
Zudsu -- dentist  
Zul -- lava  
Zun -- letter (alphabet)  
Zung-tor -- tire, fatigue  
Zungor -- tired, fatigued  
Zup-shal -- (work)shop  
Zup-tor -- labor (v.)  
Zupsu -- laborer, worker  
Zus -- (drill) bit  
Zuvel -- gadget, gizmo

## FEDERATION STANDARD-GOLIC VULCAN DICTIONARY

*"A" to "E"*

**ZHIT-FEIM TERAYA-EINGELSU - GOL-VUHLKANSU**

**>A< na' >E<**

This is a major portion of our Golic Vulcan Language vocabulary but not an unabridged reference. All words here have been verified. These words can be used for both Traditional Golic Vulcan and formal Modern Golic Vulcan, except where noted. If you printed or saved a version of these words prior to January 12, 2002, please discard that obsolete material.

The abbreviation (*anc.*) means the word comes from an ancient, often non-Golic, source; (*obs.*) means the word is considered obsolete in contemporary use in the Golic Vulcan languages. All other abbreviations are standard abbreviations that should be easily understood. Also, the Golic Vulcan languages have adopted words from other Vulcan languages, both living and dead.

A, An -- wuh  
 Abacus -- tum-nentu  
 Abaxial (bot., zool.) -- irak-da-sfekik  
 Abbreviate -- zhipenau  
 Abbreviation -- zhipenaya  
 Abcission -- ha-snem  
 Abdomen -- feshek  
 Aberrant -- rivesik  
 Ability -- kup'es  
 Ablactation -- pehk-thasaya  
 Ablation -- falkrashaya  
 Able -- kup  
 Ablepharia -- fam-bezhun-wein  
 Ablogenesis -- ha-nen-tveshu  
 Ablotic -- rihatik  
 Ablutophobia -- wu'sibau-pthak  
 Abnormal -- ritsuri  
 About -- pa, pa'  
 Above -- abru'  
 Abrachia -- fam-karlar  
 Abrade -- grashau  
 Abranchiate -- masu-eshanek-fam  
 Abrasion -- grashaya  
 Abrasive (n.) -- gashayek  
 Abscess -- pi'tak  
 Abscissa -- pa'ash-sfek-pit  
 Abcission (bot.) -- kas-krus-fosha  
 Absent -- tadek-adir (anc.)  
 Absolute -- ek'es-, ek'esik  
 Absolute age -- ek'esik ya'shakhuv  
 Absolute ceiling -- ek'es-pid-tin  
 Absolute convergence -- ek'es-teretaya

Absolute humidity -- ek'esik masu'es  
 Absolute magnitude -- ek'esik pul'es  
 Absolute value -- tsuri-tala; ek'es-tala  
 Absolute weight -- ek'es-rasath  
 Absolute zero -- ek'es-ris  
 Absorb -- vi-seshau  
 Absorbent (n.) -- vi-seshayek  
 Absorption -- vi-seshaya  
 Absorption band -- vi-seshau-zhel  
 Absorption lines -- vi-seshau-zehllar  
 Absorption spectrum -- vi-seshau-kurtra  
 Abundance -- mau-yan  
 Abyss -- gosh  
 Abyssal deposits -- (glu-)gosh-titayalar  
 Abyssal-benthic zone -- glu-gosh-shal  
 Abyssopelagic -- (glu-)gosh-masutraik  
 Acataphasia -- rish-nahp-nosh  
 Accelerate -- sahrau  
 Acceleration -- sahraya  
 Accelerator -- sahrayek  
 Accelerometer -- sahrau-thonek  
 Accept -- nar-tor  
 Accepted, to be -- punar-tor  
 Access panel -- thro-wein  
 Accident -- kisheya  
 Accompany -- sailau  
 According to -- fupa s'  
 Account (n.) -- khrosahp  
 Accretion (med.) -- fito'ovaya  
 Accretion disk -- fito'ov-mathra  
 Accumulate -- hoknau, tabrukau  
 Accumulation -- hoknaya, tabrukaya  
 Accumulator (elect.) -- kipof  
 Acellular -- rinalaik  
 Acerophobia -- sfith-pthak  
 Acetic acid -- sfith-masu-sash  
 Acetone -- nen-nalesh(-tukh)  
 Ache (n.) -- sut  
 Achievement -- srashiv  
 Achluophobia -- mu'gel-pthak  
 Achromasia -- spoh-wadi-nosh  
 Acid (compound) -- sash  
 Acid (solution) -- sash-masu  
 Acid rain -- sash-sov-masu  
 Acidemia -- pid-sash-nosh  
 Acidic -- sash-, sashik  
 Acidity -- sash'es  
 Acidosis -- ritsuri-sash-nosh  
 Acousticophobia -- ralash-pthak  
 Acknowledge -- nafai-tor  
 Acquire -- prah  
 Acquired behavior -- prah-kloshai  
 Acquired characteristics -- prah-noshtralor

Acquired immunity -- prah-tefosh'es  
 Acquisition -- prai  
 Acrophobia -- pidek-pthak  
 Acropetal -- na'umik  
 Across -- mes'  
 Act (v., in a play, etc.) -- per-tor  
 Actinic rays -- glakuv-ha'zehllar  
 Actinium -- r'dahn-tukh  
 Actinodermatitis -- saya-wadi-yonshaya; yel-wadi-yontaya, yel-wadi-yonshaya  
 Actinoid (zool.) -- yel-shidik  
 Actinomycosis -- halek-talvot-has  
 Actinotherapy -- ha'zehl-ben-gun  
 Action -- torai  
 Activate -- vitorau  
 Activated carbon -- vitor-nol-tukh  
 Activated charcoal -- vitor-yonol-tukh  
 Activator -- torai-vel (elect., mech.); vitorayek (bio., chem.)  
 Active -- torupik  
 Active array -- torupik zehlaya  
 Active device -- torupik el'mish  
 Active electrode -- torupik narafek  
 Active fault -- torupik dvun-zehl  
 Active filter -- torupik kapol  
 Active margin -- torupik rihkal  
 Active resistance -- torupik tehnaya  
 Active volcano -- torupik zul-kunel  
 Activity -- toran  
 Activity coefficient -- toran-kakratulek  
 Actor, Actress -- per-ithop (anc.)  
 Acuity -- zat'es  
 Aculeate (biol.) -- salum-, salumik  
 Acupria (Vulcan "anemia") -- fam-khaf-meil (svi'hasular k'yar-khaf-nalalar)  
 Acupuncture -- lum-ben-gun  
 Acutance -- glakuv-zat'es  
 Acute -- zat  
 Acute angle -- zat-vulu  
 Acyclic (bot.) -- kulanik  
 Adapt -- rubilau  
 Adaptation -- rubilaya  
 Adapter -- rubilau-vel  
 Adaptive array -- rubilau-zehlaya  
 Adaptive radiation -- rubilau-saya  
 Adaxial (biol.) -- na-da-sfekik  
 Add -- hau  
 Addend -- hau-vel  
 Addict -- tessau; tessausu  
 Addiction -- tessaya  
 Addition -- haya  
 Additional -- hayaik  
 Additive function (math.) -- hau-is-kek  
 Additive process -- hau-torek  
 Address -- shi'yavekh  
 Adduction -- na-dvunel



Adendritic -- wel-gel-famik  
 Adenitis -- pi'nafek-yonshaya  
 Adenoid -- za-han-pi'nafek  
 Adhesion -- terpaya  
 Adhesive (n.) -- terpayek  
 Adiabatic -- ri-falek'es-rubaik  
 Adiabatic change -- ri-falek'es-rubaik rubah  
 Adiabatic equation -- ri-falek'es-rubaik vo'ihn  
 Adiabatic lapse rate -- ri-falek'es-rubaik sov-shen-tav  
 Adiabatic process -- ri-falek'es-rubaik torekan  
 Adiactic -- ri-ha'gel-torupik  
 Adipose tissue -- thel'upik nalatra  
 Adit -- ek'tukh-razh; thro-ur  
 Adjacent -- beyi-, beyik  
 Adjective -- rub-zhit  
 Adjust -- namishau  
 Administer -- ekhartau  
 Administrator -- ekhartausu  
 Admiral -- halitra-lan  
 Admiral, Rear -- nik'el-lan  
 Admiral, Vice -- shaltra-lan  
 Adopt -- thanai  
 Adoption -- thanah  
 Adoral -- be'ru'lutik  
 Adrenal gland -- abru-kapol-nafek  
 Adsorb -- fiterpau  
 Adsorbent (n.) -- fiterpayek  
 Adsorption -- fiterpaya  
 Advance -- storilau, storilaya  
 Advanced -- stor  
 Advection -- sov-yutik-dvun  
 Advection fog -- ihsek s'lamekh-masu-sov mes'samek-solektra  
 Advice -- na'shikh (anc.)  
 Advise -- na'shikhau  
 Adze -- lapan-shidek  
 Aeolian deposit -- salan-titaya  
 Aeolian tone -- salan-molu  
 Aerate -- sov-tan-tor  
 Aerated concrete -- sov-tan-nok  
 Aeration -- sov-tanan  
 Aerial (adj.) -- sovik  
 Aerial (antenna) -- (pi')kash-gel  
 Aerobe -- sov-ha-vel  
 Aerobic -- sov-ladik  
 Aerodynamic balance -- sov-dvun-vo'ektaya  
 Aerodynamic braking -- igen-tukh-vohraun  
 Aerodynamic heating -- sov-dvun-falekan  
 Aerodynamics -- sov-dvun-tal  
 Aerodyne -- ras-sov-hali  
 Aerofoil -- aberala  
 Aerology -- (ek')sov-tal  
 Aeronautics -- hash-tal  
 Aerostat -- ta'hal-sov-hali

Aerothermodynamics -- sov-falek-tal  
 Afebrile -- tau-fam  
 Affair -- ukhru-vishan (anc.)  
 Affect -- dau  
 Afforestation -- laptra-storaya  
 Aflagellar -- dvunel-pi'harr-fam  
 Afraid -- kwes  
 After -- po'; po-  
 Afterbirth -- po-tukh  
 Afterburner -- saguhsh-yontayek  
 Afterdamp -- dah-eshu t'nol-tukh  
 Aftermath -- po-wak  
 Afternoon -- aru (anc.)  
 Aftershock -- po-hutaya  
 Again -- va'ashiv  
 Against -- tehnat  
 Agalactia -- fam-thas-nosh  
 Agate -- grut  
 Age (life) -- ya'shakhuv (anc.)  
 Age (period, era) -- pal  
 Agenesis -- ritveshu  
 Agglutinate -- navihkau  
 Agglutination -- navihkaya  
 Agglutinin -- vihk-tukh  
 Agglutininogen -- vihk-tukh-torek  
 Aging -- shakhuvaya  
 Aggregate -- karf-kov (n., geol.), karf-tor (v.)  
 Aggression -- kresan  
 Aggressive -- kres-, kresik  
 Aggressive behavior -- kres-kloshai  
 Aggressive mimicry -- kres-va'amaya  
 Agitate -- pahutau  
 Agnosia -- fam-naglashaya-nosh  
 Agoraphobia -- tu'ashal-pthak  
 Agraphia -- fam-kitaya-nosh  
 Agree -- sep-wafikh (anc.)  
 Agrestal -- risokasitalik  
 Agriculture -- urokasaya  
 Agrizophobia -- kwai-aushfa-pthak  
 Agronomy -- urozh-solek-tal  
 Aichmophobia -- sfek-vel-pthak  
 Aid -- mamut (n., anc.), mamuk (v., anc.)  
 Aide -- gol'nevsu  
 Aileron -- padukau-rala  
 Aim -- mokh, mokh-tor  
 Air -- sov  
 Air absorption -- sov-vi-seshaya  
 Air bladder -- sov-sa'haf  
 Air brake (aircraft) -- sov-vohrayek  
 Air brush (n.) -- sov-achut  
 Air compressor -- sov-lerakovayek  
 Air conditioner -- sov-noshek  
 Air conditioning -- sov-noshaya

Air conditioning duct -- sov-noshau-mev  
 Air duct -- sov-mev  
 Air embolism -- sovik khaf-mev-klotaya  
 Air filter -- sov-kapol  
 Air intake -- sov-prah-vel  
 Air lock -- fna-svep  
 Air mass -- sovtra  
 Air pocket -- abru'lik sov-razh  
 Air pump -- sov-spol  
 Air pressure -- sov-ne'hish  
 Air shaft -- sov-ur  
 Air sickness -- hash-has-mar  
 Air speed -- fna-sov-threshan  
 Air valve -- sov-spunek  
 Aircraft -- sov-hali  
 Airflow -- sov-yumaya  
 Airfoil -- aberala  
 Airframe -- sov-hali-veltra  
 Airglow -- sov-min  
 Airless -- sov-fam-, sov-famik  
 Airliner -- sov-su-yata  
 Airmanship -- hash-renkup'es  
 Airport -- shi'sov-hali  
 Airship -- (tepulik) pa-sov-hali  
 Airtight (adj.) -- sov-fenk(-)  
 Airway (med.) -- esh-mev  
 Airway obstruction -- esh-mev-klotaya  
 Airworthy -- hash-ek'manik  
 Akinesia -- fam-dvunel-nosh  
 Alabaster -- tanaf-kov  
 Alarm (device) -- vikayek  
 Albedo -- ha'gel-haulan-tavat  
 Albino (n.) -- fam-kursu  
 Albumin -- tesihk  
 Alcohol -- naliveh  
 Alcoholism -- naliveh-tessaya  
 Algae -- smollar  
 Algebra -- seht-su'us-ek'tal  
 Algebraic -- seht-su'us-, seht-su'usik  
 Algebraic curve -- seht-su'us-tsa  
 Algebraic function -- seht-su'us-kek  
 Algebraic number -- seht-su'us  
 Algology -- smol-tal  
 Algophobia -- kusut-pthak  
 Algorithm -- kilkau-torek  
 Alidade -- dah-glanekik pa'ash-pasu-skothonek  
 Alien (adj.) -- akan(-)  
 Alien (n.) -- akansu  
 Align (v.) -- zehl-tor  
 Aligned -- zehlik  
 Aligned, to be -- puzehl-tor  
 Alignment -- zehl'es  
 Alike -- kahkwa (anc.)

Alimentary canal -- skaun-ek'ur  
 Alimentary system -- skaun-torektra  
 Aliquot -- tukh-nisauk pi'li-fal  
 Alkalemia -- pid-sovash-nosh  
 Alkali -- sovash  
 Alkali granite -- sovash-zasuhl  
 Alkali metals -- sovash-mokevlar  
 Alkaline -- sovash-, sovashik  
 Alkaline battery -- sovash-kipof  
 Alkaline earth metals -- sovash-solek-mokevlar  
 Alkalosis -- ritsuri-sovash-nosh  
 All -- ek; ek'  
 Allele -- tol-shid  
 Allelomorph -- tol-shid  
 Allergen -- tehn-folau-tukh  
 Allergy -- tehn-folaya  
 Allow -- kal-tor  
 Alloy (n.) -- rish-mokev  
 Alluvial fan -- ne-tin-sovek  
 Alluvial mining -- ne-tin-vanan  
 Alluvial plain -- ne-tin-eiktra  
 Alluvium -- ne-tin (s'masu-titaya)  
 Ally (n.) -- puk'ai'la  
 Almost -- siyah  
 Alogia -- pak t'stariben-kup'es  
 Alone -- sa'awek  
 Alopecia -- isachaya-pak  
 Alpha decay -- sih-nehaya  
 Alpha emitter -- sih-sayek  
 Alpha particle -- sih-pi'gal  
 Alpha radiation -- sih-saya  
 Alpha rays -- sih-zehllar  
 Alpine (adj.) -- pid-kunel-, pid-kunelik  
 Also -- isha  
 Alter -- rubitau  
 Alternate (v.) -- krusitau  
 Alternate angle -- krusit-vulu  
 Alternate exterior angle -- krusit-si-vulu  
 Alternate interior angle -- krusit-tvi-vulu  
 Alternating series -- krusit-weizehl  
 Alternative medicine -- vath-has-tal  
 Alternator -- ek'ka-ferek  
 Altimeter -- pidek-thonek  
 Altitude -- sov-pidek  
 Altitude switch -- sov-pidek-dvelek  
 Altitude valve -- sov-pidek-spunek  
 Altocumulus (cloud) -- pid-tra-wan  
 Altostratus (cloud) -- pid-tin-wan  
 Altruism -- vathu-tunan  
 Aluminum -- wan-tukh  
 Aluminum foil -- wan-tukh-thalv  
 Aluminum leaf -- wan-tukh-mor  
 Aluminum powder -- wan-tukh-grazhiv

Alveolitis -- esh-nala-yonshaya  
 Alveolus -- esh-nala  
 Always -- kwon-sum  
 Amalgam (chem.) -- masumok-rish-mokev  
 Amastia -- fam-thasek-nosh  
 Amathophobia -- grazhiv-pthak  
 Amaze -- taurau  
 Amazed, to be -- putaurau  
 Amazement -- tauraya  
 Amazing -- taurauk  
 Ambassador -- kevet-dutar (anc.)  
 Amber -- puhku  
 Ambient -- pa-nosh-, pa-noshik  
 Ambient noise -- pa-nosh-ralash  
 Ambient temperature -- pa-nosh-falek'es  
 Ambulatory -- lates-kupik  
 Ambulophobia -- lates-pthak  
 Americium -- wuh-tukh  
 Amethyst -- gahv  
 Amino acid -- sash t'ha-torek  
 Ammonia -- reh-masuyu t'sov-tukh  
 Amnesia -- vokaya-pak  
 Amniocentesis -- sudef-masu-nisan  
 Amniotic fluid -- sudef-masu  
 Amniotic sac -- sudef-masu-sa'haf  
 Among us -- akhlami  
 Among them -- ekhlami  
 Amorphous -- fam-shidik  
 Amount -- nosahp  
 Amp(ere) -- norak  
 Amplifier -- ashenayek  
 Amplitude -- tsulaya  
 Amplitude distortion -- tsulau-saznek  
 Amplitude limiter -- tsulau-greyek  
 Amplitude modulation (AM) -- tsulau-nakihtilaya  
 Amplitude peak -- tsulau-feh  
 Ampoule, Ampule (med.) -- has-mashek  
 Amputate -- sanesh-tor  
 Amputation -- sanesh  
 Amychophobia -- thesh-pthak  
 Amyoplasia -- fam-dvunek-storaya  
 Amyotrophia, Amyotrophy -- dvunek-pak-nosh  
 Amylum (bot.) -- (kas-)slok  
 Anabatic -- abru-dvunik  
 Anabatic wind -- (kunelik) abru-dvun-salan  
 Anabolic -- torvau-torik  
 Anabolism -- torvau-torek  
 Anadromous -- zalmatrupik  
 Anaerobe -- risov-ha-vel  
 Anaerobic -- risov-ladik  
 Anal -- pekh-razh-, pekh-razhik  
 Analgesic (n.) -- kusut-nem-tukh  
 Analog clock -- elek-wak-vel

Analog computer -- vuhna-tum-vel  
 Analog filter -- vuhna-kapol  
 Analog recorder -- vuhna-vipladayek  
 Analog signal -- vuhna-glantokaya  
 Analog watch -- karik elek-wak-vel  
 Analysis -- nisaya  
 Analyst -- nisausu  
 Analytic continuation -- nisau-fatoran  
 Analytic function -- nisau-kek  
 Analytic set -- nisau-eku  
 Analyze -- nisau  
 Anaphase -- toltra-dahsaya  
 Anaphylactic shock -- pid-folau-kolaya  
 Anatomy (study) -- vukhut-tal  
 Ancestors -- orfik-kel (anc.)  
 Anchor (boat/ship) -- masu-vohrayek  
 Ancraophobia -- salan-pthak  
 And -- eh, heh  
 Andiron -- yon-lapan-nentu  
 Andorian (person/language) -- Andorsu  
 Androecious -- sa-gohik  
 Androecium -- sa-svai-krus  
 Androgen -- dau-tukh t'sa-noshtra  
 Android -- sutorsu  
 Androphobia -- sasu-pthak  
 Anemia -- fam-khaf-meil (svi'hasular k'yon-khaf-nalalar)  
 Anemometer -- salan-thonek  
 Anemophily -- k'salan-vikantaya  
 Aneroid barometer -- dvunek-elekik sov-ne'hish-thonek  
 Anesthesiologist -- kashan-nesu  
 Anesthesiology -- kashan-ne-tal  
 Anesthetic -- kashan-ne-meil  
 Aneurysm -- khaf-mev-eikan  
 Angel -- ha'su  
 Anger -- resha, reshan  
 Angiologist -- vukhut-mevsu  
 Angiology -- vukhut-mev-tal  
 Angiosperm -- wein-nei-kastik  
 Angle (n.) -- vulu  
 Angle bracket -- vulu-mad  
 Angle gauge -- vulu-mik-yal  
 Angle iron -- vulu-vel  
 Angle of approach -- betau-vulu  
 Angle of arrival -- lasha-vulu  
 Angle of attack -- hash-vulu  
 Angle of deflection -- sakwitau-vulu  
 Angle of departure -- trasha-vulu  
 Angle of heel -- galat-vulu  
 Angle of incidence -- skonn-tev-vulu  
 Angle of reflection -- haul-vulu  
 Angle of refraction -- ha'zehl-vulau-vulu  
 Angle of repose -- ek'an-tuh-vulu  
 Angle of roll -- padukau-vulu

Angle of slide -- tuh-tev-vulu  
 Angle of stall -- ek'an-hash-vulu  
 Angle of view -- zan-vulu  
 Angry -- reshnek  
 Anguish -- thonau, thonaya  
 Anguished (adj.) -- thonauk  
 Angular acceleration -- vukharat-sahraya  
 Angular divergence -- vukharat-sataya  
 Angular frequency -- vukharat-vakav'es  
 Angular momentum -- vukharat-dvunelinak  
 Angular velocity -- vukharat-threshan  
 Anhydrous -- fam-masupik  
 Animal (adj.) -- aushfamaluhr (anc.)  
 Animal (n.) -- aushfa (anc.)  
 Anion -- u'rak-falun-krus  
 Ankle -- mal-nik  
 Annual (adj.) -- kanok-tevunik (yearly); wuh-tevunik (botany)  
 Anode -- a'rak-narafek  
 Anomalous -- flekh-, flekhik  
 Anomaly -- flekh'es  
 Anorchia -- fam-sakal-nosh  
 Anosmia -- fam-fnish-nosh  
 Another -- wuh'ashiv  
 Anovulation -- fam-yukaya  
 Anoxia -- fam-esh-tukh  
 Answer -- kilko(-srashiv), kilko-tor  
 Answered, to be -- pukilko-tor  
 Antacid -- tehn-sash-meil  
 Antenna -- kash-gel  
 Antenna feeder -- kash-gel-elakh  
 Antenna field -- kash-gel-vunai  
 Antenna grid -- kash-gel-vis  
 Antenna impedance -- kash-gel-rasnertaya  
 Antenna resistance -- kash-gel-tehnaya  
 Anterior -- khom'rak  
 Anthelion -- mesyut-yel(-stivan)  
 Anther -- lesh-patam t'kas-sa-nei  
 Antheridium -- sa-guv-nafek t'ek'os-kastiklar  
 Antherocyte -- rivinik kas-sa-nei t'ek'os-kastiklar  
 Antherozoid -- kas-sa-nei t'ek'os-kastiklar  
 Anthesis -- svai-tu'ashya-wak  
 Anthocyanin -- yar-gahv-kurek  
 Anthrophobia -- svai-pthak  
 Anthropology -- kominsu-tal  
 Antibaryon -- tehn-pu'gal  
 Antibiotic (n.) -- tehn-talvot(-tukh)  
 Antibody -- fosh-galutravek  
 Anticline -- abru-vul  
 Anticoagulant -- tehn-vihk-tukh  
 Anticollision beacon -- tehn-terkwul-glaribek  
 Anticyclone -- vath-sov-dan  
 Antidote -- tehn-gisam-tukh  
 Antiemetic -- tehn-slakh-tukh

Antifouling paint -- gisam-vukhut-kras (t'masu-halilar)  
 Antigen -- tehn-vel  
 Antigrav(ity unit) -- tehn-ne-seshanek  
 Antilock brake system -- tehn-klachaik vohrau-torektra  
 Antilogarithm -- satalashenek  
 Antimatter -- tehn-tukh  
 Antimony -- kra-tukh  
 Antimutagen -- tehn-tselayek  
 Antimycotic -- tehn-luk-tukh  
 Antineutrino -- tehn-ska'gal  
 Antineutron -- tehn-ta'gal  
 Antiparticle -- tehn-pi'gal  
 Antipodal point -- mesyut-sfek  
 Antiproton -- tehn-a'gal  
 Antipruritic -- tehn-drizh-tukh  
 Antipyretic -- tehn-tau-tukh  
 Antiquark -- tehn-pihl  
 Antique -- ek'os(-); ek'os-vel  
 Antiroll bar -- tehn-padukau-mofek  
 Antiserum -- tehn-has-masu  
 Antitoxin -- tehn-hasam-tukh  
 Antitussive -- tehn-huhsh-tukh  
 Antivenin -- tehn-ausham-tukh  
 Antler -- stonn  
 Antlophobia -- abrash-pthak  
 Anuria -- ritsuri-vazhaya-nosh  
 Anus -- pekh-razh  
 Anvil -- mah-vihpan  
 Any -- fan(-)  
 Anyone -- fan-veh  
 Anything -- fan-vel  
 Anything else -- fan-kitok  
 Anywhere -- fan-wilat  
 Apart -- k'wuhli  
 Apartment -- ha-shal  
 Apeirophobia -- va'es-pthak  
 Aperture -- sharu  
 Apex -- um  
 Aphagia -- ritsuri yokul-vinem-nosh  
 Aphasia -- gen-lis-pak (s'shad-sval)  
 Aphelion -- yel-irak-sfek  
 Aphenphosmophobia -- puesthul-pthak  
 Aponia -- spes-pak(-nosh)  
 Aplanate -- pa'ashtrupik  
 Apnea -- esh-pehkaya-nosh  
 Apodal, Apodous -- ash'ya-fam-, ash'ya-famik  
 Apogee -- irak-sfek  
 Apogee motor -- irak-sfek-mishu  
 Apomorphic -- stor-shidik  
 Apothem -- svitan-sazehl t'tsuri-wehk-vla  
 Appendage -- si-krus (anat., zool.); si-vel (bot.)  
 Appetite -- yeht-avon  
 Appear -- saudau



Appoint (v.) -- kru'minaakh (anc.)  
 Appointment -- kru'mina (to a position, etc.); latva (meeting)  
 Approach -- betau, betaya  
 Approach lights -- betau-ha'gellar  
 Approach speed -- betau-threshan  
 Approval -- messaya  
 Approve -- messau  
 Aquaduct -- masu-ur  
 Aquamarine -- muzh-kur  
 Aquarium -- aluk-kelek  
 Aquatic -- masu-hatik  
 Aqueous -- masupik  
 Aqueous humor -- tvi-bezhun-masu  
 Aqueous tissue -- masu-tsorau-nalatra  
 Aquiculture -- uromashaya  
 Aquifer -- masu-kovtra  
 Aramid fiber -- klath-slah  
 Arc -- kes  
 Arc lamp -- kes-ha'gelek  
 Arc minute -- kes-suk'krus  
 Arc second -- kes-pi'krus  
 Arc welder (device) -- kes-falterayek  
 Arcade -- kesek-weizehl  
 Arccosecant -- abomesayik vath-sfek-aus  
 Arccosine -- abomesayik vath-tavat-zes  
 Arccotangent -- abomesayik vath-sfek-vel  
 Arch (n.) -- kesek  
 Archegonium -- ko-guv-nafek t'ek'os-kastiklar  
 Archeology -- veshtsu-tal  
 Archibenthic zone -- gan-gosh-shal  
 Archipelago -- vikuvtra-travek  
 Architect -- te'koshfet (anc.)  
 Architecture -- te'koshif (anc.)  
 Architype -- nen-ves  
 Archives -- oska  
 Arcsecant -- abomesayik weht-sfek-aus  
 Arcsine -- abomesayik vul-tavat-zes  
 Arctangent -- abomesayik wuh-sfek-vel  
 Area -- shal  
 Arenaceous -- mazhiv-lef'es-kahk  
 Areola -- kur-kuv  
 Ar□te -- nas-rihk-tauf  
 Argillaceous -- pid-krizhivik  
 Argon -- im-tukh  
 Argument (math.) -- nerau-kek-vuhnayek  
 Arid -- maut-pseth  
 Aril -- nei-si-to'ovak  
 Arithmetic -- nen-su'us-ek'tal  
 Arithmophobia -- su'us-pthak  
 Arkose -- tashuhl-mazhiv-kov  
 Arm -- kar  
 Armature -- radanek  
 Armor -- fo-wein

Armor plate -- fo-wein-math  
 Armory -- shi'wun  
 Army -- ask'er  
 Around -- pa'  
 Array -- zehlau, zehlaya  
 Arrest (stop) -- pehkau, pehkaya  
 Arrester -- pehkayek  
 Arrhythmia -- ritsuri nel-dath t'khaf-spol  
 Arrival -- lashan  
 Arrive -- lasha  
 Arrow -- kliton  
 Arroyo -- pi'spathel  
 Arsenic -- gis-tukh  
 Arsenic trioxide -- reh-eshu t'dah-gis-tukh  
 Arsenic trisulfide -- reh-vlau'u t'dah-gis-tukh  
 Art -- tanaf (anc.)  
 Arteriole -- pi'uzh-khaf-mev  
 Artery (anat.) -- uzh-khaf-mev  
 Arthralgia -- lesek-kusut  
 Arthritis -- lesek-yonshaya  
 Articulation -- terfitilaya  
 Artificial -- sutor-, sutorik  
 Artificial gravity -- sutor-ne-seshan  
 Artificial gravity generator -- ferek t'sutor-ne-seshan  
 Artificial gravity plate (grav-plate) -- ne-seshan-math  
 Artificial heart -- sutorik khaf-spol  
 Artificial insemination -- sutorik sa-neitaya  
 Artificial intelligence -- sutor-kash-tok'es  
 Artificial kidney -- sutorik kapol-nafek  
 Artificial satellite -- sutor-aikum  
 Artist -- tanafsu  
 Artistic -- tanafluk  
 As -- vah; u'  
 Asbestos -- slah-tukh, slah-kov  
 Asbestosis -- slah-eshaf-has  
 Ascend -- she-tor  
 Ascent -- shen  
 Ascent thruster -- shen-kwitek  
 Ascorbic acid -- nen-savas-sash  
 Asexual -- riguv-, riguvik  
 Asexual reproduction -- riguv-kanashivaya  
 Ash(es) -- vitush  
 Ashamed -- kafus-, kafusik  
 Ask -- ya'akash (anc.)  
 Aspect (n.) -- pulva  
 Aspect ratio (aero.) -- rala-pul-tavat  
 Asphalt -- solektra-urm; elyutau-urm  
 Assay (v.) -- tukh-nisau  
 Assayer -- tukh-nisau  
 Assemble -- feretau  
 Assembly (gathering) -- feretaya  
 Assembly (mech.) -- feretai  
 Assimilate -- vinem-tor

Assimilated, to be -- puvinem-tor  
 Assimilation -- vinem  
 Assist (v.) -- gol-tor  
 Associate -- katravahsu (n.), katravah (v.)  
 Association -- katravek  
 Associative learning -- katravek-orenan  
 Associative memory -- katravek-vokaya  
 Associative storage -- katravek-tsoraya  
 Assortative mating -- ka-ves-katelaya  
 Astatine -- dvor-tukh  
 Asteroid -- pi'ek'tra  
 Asthenia -- fam-karik'es-nosh  
 Asthenosphere -- abru-tvi-kovtra  
 Astringent (n.) -- (wadi-)wufkau-tukh  
 Astrobleme -- skrash-kwul-razh  
 Astrogator -- stukh-kharayek  
 Astrogeology -- s'udish-solektra-tal  
 Astrometric sensor -- stukh-thonau-kashek  
 Astronomer -- yel-talsu  
 Astronomy -- yel-tal  
 Astrophysicist -- stukh-talsu  
 Astrophysics -- stukh-tal  
 Asymmetric -- ritalikalik  
 Asymmetry -- ritalikal  
 Ataraxis -- kash-hayal'es  
 Athazagoraphobia -- zhuk-fak-pthak  
 Atmosphere -- igen-tukh  
 Atmospheric line -- sov-ne'hish-zehl  
 Atmospheric motion -- sov-dvun  
 Atmospheric pressure -- sov-ne'hish  
 Atmospheric tides -- sov-ne'hish-mashenlar  
 Atmospheric water -- sov-masu-nakh  
 Atom -- galu  
 Atomic -- galu-, galupik  
 Atomic bomb -- galu-thorshek  
 Atomic clock -- galu-wak-vel  
 Atomic energy -- galu-tepul  
 Atomic mass -- galu-shivak  
 Atomic number -- galu-su'us  
 Atomic structure -- galu-velek  
 Atomic weight -- galu-rasath  
 Atresia -- fam-sharushan-nosh  
 Atrium -- tvi-shal  
 Attack -- nashiv, nashiv-tor  
 Attainment -- bai'elkhrul-akteiben (anc.)  
 Attitude control (aero.) -- hash-shul-tash  
 Attitude indicator -- hash-shul-yal  
 Attract -- skamau  
 Attraction -- skamaya  
 Atychiphobia -- vpravshaya-pthak  
 Audible -- zhu-yehat  
 Audiofrequency -- zhu-vakav'es  
 Audiology -- ralash-tal

Auditory canal -- zhu-ur  
 Auditory center -- zhu-svitan (t'shad)  
 Auditory nerve -- zhu-wel  
 Auditory ossicles -- zhu-pi'hineklar  
 Aunt -- ezyet (anc.)  
 Aural -- kaluk-, kalukik  
 Auricle (of ear) -- si-kaluk  
 Aurophobia -- kin-tukh-pthak  
 Aurora -- igen-gellar  
 Autecology -- shatri-malat-tal  
 Author -- kitausu  
 Authority -- ek'te'kru  
 Authorize -- ek'te'kau  
 Autism -- saktra-nosh  
 Autistic -- saktra-, saktraik  
 Autoclave (n.) -- ne'hish-falek-vel (chem.); ne'hish-ek'puyek (med.)  
 Automate -- shatilau  
 Automatic -- shati-, shatik  
 Automatic camera -- shati-glayek  
 Automatic control -- shati-tash  
 Automatic docking system -- shati-kifau-torektra  
 Automatic door -- shati-svep  
 Automatic exposure -- shati-sashavaya  
 Automatic frequency control (AFC) -- shati-vakav'es-tash  
 Automatic gain control -- shati-nazh-tash  
 Automatic gate -- shati-temep  
 Automatic landing system -- shati-fisolekau-torektra  
 Automatic mixture control -- shati-rish-tash  
 Automatic phase control -- shati-wek-tash  
 Automatic pilot -- shati-hashek  
 Automatic shutter -- shati-ha'wein  
 Automatic stabilizer -- shati-tahetilayek  
 Automatic transmission -- shati-mesmishek  
 Automatic tuning -- shati-tvelkaun  
 Automatic voltage regulator -- shati-toruk-pakhartayek  
 Automatic volume control -- shati-ral'es-tash  
 Automatic weather station -- shatik igen-va-wurzel  
 Automation -- shatilaya  
 Automysophobia -- pukitork-pthak  
 Autonomic -- sa'a, sa'atik  
 Autonomic movement -- sa'a-dvun  
 Autonomic nervous system -- sa'a-wel-torektra  
 Autonomic reflex -- sa'a-tvisek  
 Autonomous -- sa'a-, sa'atik  
 Autonomous vehicle -- sa'a-hali  
 Autopilot -- shati-hashek  
 Autopsy (n.) -- tevikeh-nisaya  
 Autorotation -- sa'a-dan  
 Autosome -- riguv-toltra  
 Autostabilizer -- shati-tahetilayek  
 Autotropic -- shai-torvau-, shai-torvauk  
 Autumn (season) -- Tasmin, "Tasmeen" (colloquial); urozh-wak (scientific)  
 Autumnal equinox -- ka-wak-gad t'urozh-wak

Auxiliary -- kvath-, kvathik  
 Auxiliary air intake -- kvathik sov-prah-vel  
 Auxiliary control (room) -- kvath-tash-svitan  
 Auxiliary core -- kvath-tviyan  
 Auxiliary lift motor -- kvath-aberau-mishu  
 Auxiliary power -- kvath-tepul  
 Auxiliary power interface -- kvath-tepul-tvihanek  
 Auxiliary rotor -- kvath-pi'dayek  
 Auxiliary switch -- kvath-dvelek  
 Auxiliary tank -- kvath-tuhlek  
 Auxin -- wu-dau-tukh  
 Auxocyte -- du-dahsau-nala  
 Auxometer -- sukmakhau-tepul-thonek  
 Available -- la'ka-yehat  
 Available light -- la'ka-ha'gel  
 Available power -- la'ka-tepul  
 Avalanche -- (suk')izh-skish; (suk')kov-skish  
 Average (adj.) -- bov-, bovik  
 Average -- bov, bov-tor  
 Average current -- bov-katrom  
 Average curvature -- bov-tchakat  
 Average speed -- bov-threshan  
 Aversive stimulus -- tehn-kastoran  
 Avian (adj.) -- kushel-, kushelik  
 Aviator -- (sayik) hashsu  
 Aviatrice -- (koyik) hashsu  
 Avid -- nayik  
 Avulsion -- sa-tres  
 Awe -- tesha, teshan  
 Awed, to be -- putesha  
 Awl -- razhek  
 Ax(e) -- la'ash  
 Axenic -- riakan(-); wuh-koshtri-, wuh-koshtrik  
 Axial compressor -- da-sfek-lerakovayek  
 Axial engine -- da-sfek-mishu  
 Axial flow turbine -- da-sfek-yumauk mor-dayek  
 Axial ratio -- da-sfek-tavat  
 Axial response -- da-sfek-kesaya  
 Axial vector -- da-sfek-vukharat  
 Axil -- fek-tersau-vul  
 Axile -- svitan-fekik  
 Axiom -- ka'yed (anc.)  
 Axis -- da-sfek  
 Axis of symmetry -- talikal-da-sfek  
 Axle -- da-fek  
 Axle weight -- da-fek-rasath  
 Axon -- wel-elakh  
 Axonal amplifier -- wel-elakh-ashenayek  
 Axonometry -- thon t'khush-da-sfek  
 Azimuth -- ir-zehl-kes  
 Azimuth angle -- vulu t'ir-zehl-kes  
 Azimuth marker -- ulidek t'ir-zehl-kes  
 Azonal soil -- rivin-solek

Azoospermia -- ovsotik sa-nei-fam  
 Azotemia -- pid-sovu-vok svi'khaf  
 Azoturia -- pid-sovu-vok svi'vazh  
 Azygous -- ri-shifik  
 Azymia -- fam-zalu-nosh  
  
 Baby -- kan-bu  
 Baccate (adj.) -- nei-savas-kahk  
 Bacillemia -- nosh t'fek-talvot svi'khaf  
 Bacillophobia -- pthak t'numo-ha-veller  
 Bacilluria -- nosh t'fek-talvot svi'vazh  
 Bacillus -- fek-talvot  
 Back (n.) -- pla'dor  
 Back mutation -- za-tselaya  
 Back pressure -- pla-ne'hish  
 Back up (v.) -- pla-tor (reverse); kvath-korsau (save)  
 Backbone -- plat  
 Backdraft -- zafnalan  
 Backfire -- po-thorshau, po-thorshaya  
 Backflow (n.) -- pla-yumaya  
 Background (n.) -- za-mesu  
 Backshore -- pid-shahov  
 Backswamp -- ne-flash  
 Backup (adj.) -- kvath-, kvathik  
 Backup data network -- kvath-faik-vistra  
 Backup file -- kvath-deik  
 Backward(s) -- pla'rak  
 Backwash -- sayumaya  
 Backwater -- pla-masu  
 Bacteremia -- nosh t'talvot svi'khaf  
 Bacterial -- talvot-, talvotik  
 Bactericide -- talvot-stau-tukh  
 Bacteriology -- talvot-tal  
 Bacteriophobia -- talvot-pthak  
 Bacterium -- talvot  
 Bacteruria -- nosh t'talvot svi'vazh  
 Bad -- rasahkos (anc.)  
 Baffle (n.) -- hertak  
 Baffle plate -- hertak-math  
 Bag -- sa'haf  
 Bajoran -- Beidzhorsu  
 Bake -- leipau  
 Baker -- leipausu  
 Bakery -- leip-kel  
 Balance (equilibrium) -- vo'ektau, vo'ektaya  
 Balance (scales) -- vo'ekti  
 Balance arm -- vo'ek-kar  
 Balance bar -- vo'ek-mofek  
 Balance box -- vo'ek-natuhn  
 Balance crane -- vo'ek-aberayek  
 Balance point -- vo'ek-sfek  
 Balance spring -- vo'ek-mopakuv  
 Balance weight -- vo'ek-rasath

Balance wheel -- vo'ek-halek  
 Balanced amplifier -- vo'ektal-ashenayek  
 Balanced circuit -- vo'ektal-raf-kuv  
 Balanced network -- vo'ektal-vistra  
 Balanced polymorphism -- ka-wehk-shidan  
 Balanced system -- vo'ektal-torektra  
 Balcony -- fah-yat (anc.)  
 Ball -- dukal  
 Ball bearing -- dukal-kuvish  
 Ball cock -- markau-kar-spunek  
 Ball lightning -- dukal-igen-wesh  
 Ball valve -- dukal-spunek  
 Ball-and-socket joint -- dukal-guf-lesek  
 Ball-peen hammer -- dukal-patamik mah-vel  
 Ballast (ship) -- tihet'es-rasath-tukh  
 Ballistics -- tal t'dvunan-vel svi'seshan-vunai  
 Balloon (n.) -- sov-dukal  
 Balneology -- wu'sibau-tal  
 Band (n.) -- zhel  
 Bandage -- zhumav  
 Banish -- sahasau  
 Banishment -- sahasaya  
 Bandsaw -- zhel-zuneshek  
 Bank -- kutra  
 Banner -- hai-fan  
 Bar (metal) -- mofek  
 Bar code -- fek-kiht  
 Bar graph -- fek-besan  
 Bar magnet -- fek-seshan-kov  
 Barchan -- dah-stonn-sef  
 Bare -- wein-fam(-), wein-famik; sai-fam(-), sai-famik  
 Bare conductor -- wein-fam-spayek  
 Barefoot (adj.) -- sai-fam-ash'yaik  
 Barge (n.) -- tus-hali  
 Barium -- zon-tukh  
 Barium sulfate -- vlau-keh-eshu t'zon-tukh  
 Bark (botany) -- lap-wadi, kas-wadi  
 Barn -- aushfa-kel  
 Barograph -- sov-ne'hish-besan(ek)  
 Barometer -- sov-ne'hish-thonek  
 Barrel -- subok (container); wun-mev (gun)  
 Barrier -- foshek  
 Baryon -- pu'gal  
 Baryon number -- pu'gal-su'us  
 Baryon sensor -- pu'gal-kashek  
 Basal body -- nen-vukhut  
 Basal ganglia -- nen-weltralar  
 Basalt -- ushek (anc.)  
 Base -- sovash (chem.); nen (foundation); nen-su'us (number)  
 Base angle -- nen-vulu  
 Base level -- nen-tin  
 Base metal -- u'mokev  
 Base pair -- nen-shif

Base unit -- nen-kebi  
 Base vector -- nen-vukharat  
 Baseboard -- temok-nen-dohn  
 Baseline -- nen-zehl  
 Basement -- ne-shal  
 Bashful -- fus-, fusik  
 Basic (easy, simple) -- vel-, velik  
 Basic (fundamental) -- nen-, nenik  
 Basket -- ki'haf (anc.)  
 Basophilic -- sovash-ashauk  
 Bass (low frequency sound) -- neralash  
 Bass boost -- neralash-aboraya  
 Bass frequency -- neralash-vakav'es  
 Bast (botany) -- si-tin t'lap-vukhut  
 Batch (n.) -- def  
 Bath -- wu'sibav (anc.)  
 Bathe -- wu'sibau  
 Batholith -- neik-zul-kov  
 Bathophobia -- gluder-pthak  
 Bathyal zone -- glu-masutra-shal  
 Bathybic -- glu-masutra-, glu-masutraik  
 Bathycardia -- nosh t'neik-khaf-spol  
 Bathylimnetic -- glu-suk'muzh-hatik  
 Bathymetry -- glu-masutra-thonaya  
 Bathyscaph -- glu-masutra-hali  
 Bathysphere -- glu-masutra-vel  
 Battery (elect.) -- kipof  
 Battery booster -- kipof-aborayek  
 Battery charger -- kipof-falunayek  
 Baud -- glantokau-threshan  
 Baud rate -- glantokau-threshan-tav  
 Bauxite -- wan-tukh-van  
 Bawl (v.) -- vlei, tusa  
 Bay (n.) -- tchol  
 Bayonet -- pohshek-tilek, pohshayek-tilek  
 Be (v.) -- nam-tor  
 Beach -- shahov  
 Beach cusp -- dah-stonn-pi'sef (t'shahov)  
 Beacon -- glaribek  
 Beak iron -- mah-vihpan-stonn  
 Beam (constr.) -- zeh  
 Beam (ray) -- ha'zehl; (-)zehl  
 Beam antenna -- ha'zehl-kash-gel  
 Beam emitter -- ha'zehl-sayek  
 Beam force selector -- ha'zehl-nekwitau-dvelek  
 Beam splitter -- ha'zehl-dahshayek  
 Beam width selector -- ha'zehl-eik'es-dvelek  
 Bear -- lesh (carry, support); keshta (give birth to)  
 Beard -- hisahk  
 Bearing (mech.) -- kuvish  
 Bearing wall -- lesh-temok  
 Beat (v.) -- kuhsh-tor  
 Beautiful -- vaksurik



Beauty -- vaksur  
 Because -- fai'ei (TGV); fayei (MGV)  
 Beckon -- takau  
 Become -- shetau  
 Bed -- sar-tak (furniture); lan-tol (geology)  
 Bedrock -- nen-kov  
 Bedroom -- shi'yuk  
 Beetle -- sark  
 Before (in front of) -- fa'  
 Begin -- palikau  
 Beginning -- palikaya  
 Behave -- kloshah  
 Behavior -- kloshai  
 Behind (prep.) -- za'  
 Beige -- ha'mazhiv-kur  
 Being (lifeform) -- hasu  
 Belemnoid -- kli-shidik  
 Belfry -- kus-vakh-kispek  
 Belief -- dva  
 Believe -- dva-tor  
 Believed, to be -- pudva-tor  
 Believer -- dvasu  
 Bell -- kus-vakh  
 Bell curve -- tuh-tsa  
 Bell metal -- kus-vakh-mokev  
 Bellow (v.) -- vlei  
 Belly (n.) -- nehg  
 Belly tank -- ne-tuhlek  
 Below -- ne'  
 Belt -- zhel (mech., etc.); san-zhel (clothing)  
 Belt drive -- zhel-yeturek  
 Benamite crystal -- benam-tukh-khush  
 Bench -- wu-ku-san (seat); zhuk-pasu (work surface)  
 Bend -- vulau, vulaya  
 Beneath -- ne'rak  
 Benefit -- rufai (n.); rufah (v.)  
 Benign -- rigath  
 Benthic zone -- masu-lanet-shal  
 Benthos -- ha-vellar t'masu-lan-tol  
 Benzene -- kukev(-tukh)  
 Benzene ring -- kukev-mokuv  
 Berkelium -- reh-tukh  
 Berry -- nei-savas  
 Beryl -- dzhan(-khush)  
 Beryllium -- dzhan-tukh  
 Beside -- be'  
 Bet -- sihau, sihaya  
 Beta decay -- tih-nehaya  
 Beta emitter -- tih-sayek  
 Beta particle -- tih-pi'gal  
 Beta radiation -- tih-saya  
 Beta rays -- tih-zehllar  
 Betazed (person/language) -- Beitazedsu

Béton -- nok  
 Béton armé -- fokarikal-nok  
 Betray -- svik-tor  
 Betrayal -- svik  
 Betrayed, to be -- pusvik-tor  
 Better -- weh-rom  
 Between -- svi'  
 Bevel -- vulumau, vulumaya  
 Bevel gear -- vulu-zud-halek  
 Beyond -- mesakh  
 Bezel -- ek'zer-tam (gemology); makh-meskarayek (watch, etc.)  
 Bézier curve -- tsa t'Kusak  
 Biaxial -- dah-da-sfekik  
 Bibliophobia -- dunap-pthak  
 Bicentric -- dah-svitan-, dah-svitanik  
 Bicentric distribution -- dah-svitan-shitaya  
 Bicuspid (adj.) -- dah-sfek-, dah-sfekik  
 Bicycle -- dah-halek  
 Bidirectional -- dah-kharat-, dah-kharatik  
 Biennial (adj.) -- dah-tevunik  
 Bifacial leaf -- dah-limuk-mor  
 Bifid -- dah-krusik  
 Big -- suk, suk'  
 Bigeneric -- dah-komak-, dah-komakik  
 Bigeneric hybrid -- dah-komakik rish-ha-vel  
 Bilabiate -- dah-bru-, dah-bruyik  
 Bilateral -- dah-vla-, dah-vlaik  
 Bilateral symmetry -- dah-vla-talikal  
 Bile -- thel'a-zalu-masu  
 Bile duct -- thel'a-zalu-mev  
 Bile salts -- thel'a-zalu-alemlar  
 Bilge -- smashau-shal (t'masu-hali)  
 Bilge keel -- tehn-padukau-ralek (t'masu-hali)  
 Bilge pump -- smashau-shal-spunek (t'masu-hali)  
 Biliary tract -- thel'a-zalu-ek'ur  
 Bimanual (adj.) -- dah-el'ruhik  
 Binary (adj.) -- dah-, dahik; dah-krus-, dah-krusik  
 Binary code -- dah-kiht  
 Binary fission -- ek'dahsaya  
 Binary notation -- dah-pitohat  
 Binary scale -- dah-mathu  
 Binary star -- dah-yel  
 Binaural -- dah-kaluk-zhuyik  
 Binocular (adj.) -- dah-bezhun-, dah-bezhunik  
 Binoculars -- dah-zan-vel  
 Binomial (n.) -- dahsu'us  
 Binomial array -- dahsu'us-zehlaya  
 Binomial coefficient -- dahsu'us-kakratulek  
 Binomial distribution -- dahsu'us-sagan  
 Binomial function -- dahsu'us-kek  
 Binomial theorem -- dahsu'us-kek'yed  
 Binovular twins -- t'dahsular s'natya-yu-murlar  
 Bio-scanner -- ha-glashayek

Biochemistry -- ha-meil-tal  
 Bioclastic rock -- ha-zarahk-kov  
 Bioclimatology -- ha-ek'nosh-tal  
 Biodiversity -- ha-don-ka'es  
 Biogenic -- ha-torvauk, ha-storauk  
 Biogenic compound -- ha-storau-tukh  
 Biogenesis -- ha-storaya  
 Biogeography -- ha-solektra-tal  
 Biohazard -- ha-tehvar  
 Biological -- ha-, hatik  
 Biological clock -- ha-wak-vel  
 Biological control -- ha-tash  
 Biological race -- ha-koshtri  
 Biological warfare -- ha-vel-ahkhan  
 Biology -- ha-tal  
 Bioluminescence -- ha-ha'tanaya  
 Biomass -- hatra  
 Biome -- ha-kas-shal  
 Biometeorology -- igen-va-tal t'ha-vellar  
 Biomimetic gel -- ha-va'amau-khlup  
 Biophysics -- ha-tor-tal  
 Biopsy (n.) -- nalatra-nisan  
 Biosphere -- ha-ek'shal  
 Biostratigraphy -- ha-tin-tal  
 Biosynthesis -- ha-fereikan  
 Biosynthetic limb -- ha-sutorik sikrus  
 Biota -- shal-ha-veltra  
 Biotic -- ha-, hatik  
 Biotic association -- ha-katravek  
 Biotic barrier -- ha-foshek  
 Biotic factor -- ha-klai  
 Biotite -- nesh-timazh-kov  
 Biotopographic -- ha-solektra-shidik  
 Biotroph -- sakasu-nalatra-neshuhk  
 Biotype -- ha-ves  
 Biozone -- wak-ha-shal  
 Bipedal -- dah-mal-latesik  
 Bipinnate -- dah-patik  
 Bipolar coordinate -- dah-naik shi-kethel  
 Bipyramid -- dah-rekun  
 Biramous -- dah-gel-, dah-gelik  
 Bird -- kushel  
 Birth -- keshtan  
 Birthday -- gad t'keshtan  
 Birthmark -- keshtan-kur-vel  
 Bisect -- dah-nesh-tor (cut); dahlefau (math.)  
 Bisector -- dahlefayek  
 Bisexual (adj.) -- dah-guv-, dah-guvik  
 Bisexuality -- dah-guv'es  
 Bismuth -- grok-tukh  
 Bisphenoid -- dah-shihvek-vel  
 Bite -- zeshau, zeshaya  
 Bitter -- sfith(-)

Bitumen -- vesuhl (anc.)  
 Black -- nesh-kur  
 Black hole -- stukh-wak-razh; pash-yel  
 Blacksmith (n.) -- shek-zhuksu  
 Blade (n.) -- (wun-)mor  
 Blade angle -- mor-vulu  
 Bladder (anat.) -- vazh-sa'haf (TGV), vazhaf (MGV)  
 Blame -- tenah, tenai  
 Blanket (bedding) -- yuk-sai  
 Blast -- thorshau, thorshaya  
 Blast shutter -- thorsh-fo-wein  
 Blastocyst -- tab-nala-dukul  
 Blaze (n.) -- yon  
 Bleach -- laf-, lafau  
 Bleaching -- lafaya  
 Bleed -- khafau  
 Bleeding -- khafaya  
 Blend -- herish, herish-tor  
 Blender (device) -- herishek  
 Blennophobia -- shuhk-pthak  
 Blepharitis -- bezhun-wein-yonshaya  
 Bless -- kudau  
 Blessing -- kudaya  
 Blight (n.) -- luk-has  
 Blind (adj.) -- glan-fam  
 Blind, The -- Glan-famu  
 Blindness -- glan-fam'es  
 Blister (n.) -- yontau-masu-vihk  
 Blivet -- hal-tukh-sa'haf  
 Blizzard -- izh-sahriv  
 Blob -- vihk  
 Block -- klotau (v.); vihpan (chunk of wood, etc.)  
 Blockage -- klotaya  
 Blood -- khaf  
 Blood cell -- khaf-nala  
 Blood clot -- khaf-vihk  
 Blood coagulation -- khaf-vihkaya  
 Blood count -- khaf-tum  
 Blood donor -- khaf-tansu  
 "Blood fever" -- plak-tau (anc.)  
 Blood flow -- khaf-yumaya  
 Blood group -- khaf-maat  
 Blood plasma -- (bosh-)khaf-masu  
 Blood poisoning -- khaf-gisaman  
 Blood pressure -- khaf-ne'hish  
 Blood sugar -- khaf-slor-tukh  
 Blood test -- khaf-nisan  
 Blood typing -- khaf-vesaya  
 Blood vessel -- khaf-mev  
 Bloom -- svai, svai-tor (flower); sposhan (explosive growth)  
 Blooming -- svai-tu'ashya  
 Blow (v.) -- salur  
 Blow up (v.) -- thorshau (explode); visovau (inflate)

Blower (device) -- salur-vel  
 Blown sand -- salan-mazhiv  
 Blowpipe -- salur-mev  
 Blue (color) -- pla-kur  
 Blue-green (color) -- pla-yar-kur  
 Blueprint (n.) -- torvau-besan  
 Blunt (adj.) -- pas-, pasik (not sharp); it-fam (tactless)  
 Board (n.) -- dohn  
 Boat -- masu-hali  
 Body -- vukhut  
 Body cavity -- vukhut-pi'tauk  
 Bog (n.) -- flasikh  
 Bohrium -- leh-reh-tukh  
 Boil (med.) -- pi'tak  
 Boil (v.) -- kan-tor  
 Boiler -- kanek  
 Boilermaker -- kanek-zhuksu  
 Boiling point -- kan-falek'es  
 Bold -- vakh  
 Bole (botany) -- lap-fek  
 Bolide -- thorsha-wesh-kov  
 Bollard -- kif-lehk  
 Bolt (mech.) -- terk, terkau  
 Bolus -- yemtra  
 Bomb -- thorshek; thorshkau  
 Bombardment -- thorshkaya  
 Bomber (vehicle) -- thorshek-hali  
 Bonanza -- don-kut (anc.)  
 Bond -- tel, tel-tor  
 Bonded (adj.) -- telik  
 Bonded, One who is -- telsu  
 Bonding (n.) -- telan  
 Bone -- hinek  
 Bone marrow -- hinek-masu  
 Book -- dunap  
 Bookbinder -- dunapshausu  
 Bookbinding -- dunapshaya  
 Bookcase -- dunap-tsorayek  
 Boolean algebra -- seht-su'us-ek'tal t'Seshet  
 Boom (sound) -- ork, orkau  
 Boost -- aborau, aboraya  
 Booster -- aborayek  
 Booster coil -- aborau-pakuv  
 Booster pump -- aborau-spol  
 Booster rocket -- aborau-yon-hashek, aborayek  
 Booster station -- aborau-wurzel  
 Boot (n.) -- kluf  
 Border (n.) -- ek'zehl  
 Bore (ocean.) -- pilash-mashen-pral  
 Bore (v.) -- spitau  
 Boreal climate -- pid-desh'rak-ek'nosh  
 Boreal forest -- pid-desh'rak-laptra  
 Boreal zone -- pid-desh'rak-shal

Boric acid -- sash t'rak-reh-eshu  
 Boring (adj.) -- guhf-, guhfik  
 Boring bar -- spitau-mofek  
 Boring machine -- spitau-mishu  
 Boring tool -- spitau-raul  
 Born, to be -- pukeshta  
 Boron -- rak-tukh  
 Borrow -- yahv-tor  
 Boss (n.) -- feihan  
 Botany -- kastik-tal  
 Both -- on  
 Bother (v.) -- ertau  
 Bottle -- mashek  
 Bottle glass -- mashek-makh  
 Bottom (n.) -- lanet  
 Bouchon -- da-sfek-radet (t'wak-vel)  
 Boulder -- suk'kov  
 Bounce -- rukau, rukaya  
 Boundary -- krup  
 Boundary layer -- krup-tin  
 Bow (n.) -- khom-krus (ship); kes-wun (weapon); ovulaya  
 Bow (v.) -- ovulau  
 Bowl -- yerak  
 Bowstring -- kes-wun-elakh  
 Box -- natuhn  
 Boy -- sa-kan  
 Bra -- thasek-dah'haf (TGV); thak-dahf (MGV)  
 Brace (v.) -- fir-tor  
 Bracelet -- kar-nik-zhel  
 Brachialgia -- kar-kusut(-nosh)  
 Brachiocephalic -- patam-kar-, patam-karik  
 Brachycephalic -- pen-patam-, pen-patamik  
 Brachycerous -- pen-kash-gelik  
 Brachydactyly -- (ritsuri) pen-uk-nosh  
 Bracing (n.) -- firan  
 Bracing wire -- fir-mokelakh  
 Bracket (n.) -- mad  
 Brackish -- krus-alem-masupik  
 Bradyarthria -- (ritsuri) vohri-stariben-nosh  
 Bradycardia -- vohri-threshan-nosh t'kahf-spol  
 Bradykinesia -- (ritsuri) vohri-dvun-nosh  
 Bradylalia -- vohri-stariben-nosh  
 Bradypnea -- vohri-threshan-eshan  
 Braid -- pris, pris-tor  
 Brain -- shi'nahp (TGV); shad (MGV)  
 "Brain death" -- ek'tevakh  
 Brain tumor -- shad-gnal  
 Brain waves -- shad-katromlar  
 Brake -- vohrau; vohrayek  
 Brake band -- vohrau-zhel  
 Brake drum -- vohrau-vluhn  
 Brake lining -- vohrau-tvitaya  
 Brake pad -- vohrau-trak

Brake parachute -- vohrau-tev-sai  
 Brake shoe -- vohrau-shihvek  
 Branch (n.) -- gel (path, segment); kas-gel (bush); lap-gel (tree)  
 Branch (v.) -- gel-tor  
 Branchiostegal -- masu-eshanek-weinik  
 Brass -- dvesh-tukh  
 Brazier -- fas-nentu (cooking); psethek (drying); lamekhek (warming)  
 Bread -- kap  
 Break -- shau, shaya  
 Break into little pieces -- zarahk-tor  
 Breaker -- (raf-)shayek (elect.); kik-pral (ocean.)  
 Breakfast -- asal-yem  
 Breakthrough -- sastoraya  
 Breakwater -- pral-foshek  
 Breast -- thasek (TGV); thak (MGV)  
 Breast bone -- tuf-hinek  
 Breast pump -- thas-spol  
 Breath -- esh  
 Breathe -- esh-tor  
 Breathing -- eshan  
 Breccia -- zarahk-teret-kov  
 Breed (n.) -- kosh-ves  
 Breeder reactor -- fereik-folayek  
 Breeze (n.) -- pi'salan  
 Brick -- dok  
 Brick clay -- dok-krizhiv  
 Bricklayer -- dok-torvausu  
 Bridge -- tash-svitan (command center); mesut (span)  
 Bright (adj.) -- ugel-, ugelik (light); klon-, klonik (smart)  
 Brightness -- ugel'es  
 Brilliance -- maut-ugel'es (brightness); maut-klon'es (intelligence)  
 Brilliant (adj.) -- maut-ugelik (very bright); maut-klonik (very smart)  
 Brine -- alem-masu  
 Bring -- katau  
 Brink (n.) -- rihk  
 Brisket -- neik-tuf (t'aushfa)  
 Bristle (n.) -- stegel-isach  
 Brittle -- wei-shau-yehat  
 Broad-leaf -- eik-mor-kastik, eik-mor-lap  
 Broad-leaved -- eik-morik  
 Broadcast -- sasau, sasaya  
 Brochure -- dunesh  
 Broken, to be -- pushau  
 Bromine -- fnek-tukh  
 Bronchial -- eshaf-mev-, eshaf-mevik  
 Bronchiole -- pi'eshaf-mev  
 Bronchitis -- eshaf-mev-yonshaya  
 Bronchoscopy -- eshaf-mev-zanan  
 Bronchus -- suk'eshaf-mev  
 Bronze (n.) -- krish(-tukh)  
 Brood (n.) -- kesh-travek  
 Broom -- fnash-vel  
 Brother -- sa-kai

Brown -- khav-kur  
 Bruise (n.) -- wadi-yarek  
 Brush (n.) -- achut  
 Bruxism -- zud-grazhau-nosh  
 Bryology -- yekuhl-tal  
 Bubble -- duk, dukau  
 Bucca -- nak  
 Buccal cavity -- tvi-ru'lut(-pi'tauk)  
 Buccal gland -- ru'lut-pi'nafek  
 Bucket -- mashuk  
 Buckle (n.) -- tersek  
 Bud (n.) -- svai-mur (flower); krus-mur (leaf, stem, etc.)  
 Buffer -- fukat, fukat-tor  
 Buffer action -- fukat-torai  
 Buffer battery -- fukat-kipof  
 Buffer circuit -- fukat-raf-kuv  
 Buffer solution -- fukat-meil-masu  
 Buffeting (aero.) -- hash-hutaya  
 Bug (v.) -- smertau  
 Build -- torvau  
 Builder -- torvausu  
 Building -- kel  
 Bulb (botany) -- kas-mur  
 Bulkhead (aircraft/ship) -- tvi-temok  
 Bull's-eye -- les-svitan  
 Bump (n.) -- kad  
 Bundle (anat.) -- slahtra  
 Bunsen burner -- yontayek t'ek'tal-zup-shal  
 Buoy -- (markau-)ulidayek  
 Buoyancy -- abmarkan'es  
 Buoyant -- abmarkan-, abmarkanik  
 Burial -- visolektaya  
 Burn -- yontau, yontaya  
 Burner -- yontayek  
 Bursa -- lesek-sa'haf (boshal k'masu)  
 Bursiform -- sa'haf-shidik  
 Bursitis -- lesek-sa'haf-yonshaya  
 Burst -- thorau, thoraya  
 Bury -- visolektau  
 Bushing (mech.) -- radet  
 Bussard collector -- tershayek t'Bussard  
 Busy -- toran-, toranik  
 But -- hi  
 Butte -- (pa'ash-)kunel (non-volcanic); zul-kunel (volcanic)  
 Butterfly valve -- mathra-spunek  
 Buttocks -- pla'kruslar  
 Button -- gonaf  
 Buttress (n.) -- si-kel-nenikaya  
 Buy (v.) -- mahr-tor  
 Bypass -- pamutau, pamutaya; pamutayek  
 Bypass pump -- pamutau-spol  
 Bypass valve -- pamutau-spunek



Cabinet -- tsorayek  
 Cable (n.) -- elakh  
 Cable buoy -- (markau-)elakh-ulidayek  
 Cable duct -- elakh-mev  
 Cable release -- elakh-torai-vel  
 Cable stitch -- elakh-og, elakh-og-tor  
 Cabling -- elakhtra  
 Cache -- tsorau, tsoraya  
 Cache memory -- tsorau-vokaya  
 Cacophobia -- watosh-pthak  
 Cadaver -- tevikeh  
 Cadet -- ne-lan  
 Cadmium -- stal-tukh  
 Cadmium sulfide -- vlau'u t'stal-tukh  
 Caducous -- ten-tevan-, ten-tevanik  
 Cage -- kraisek, kraiskau  
 Calcaneus, Calcaneum -- timut-hinek  
 Calcareous -- gav-, gavik  
 Calciferous -- gav-alem-, gav-alemik  
 Calcification -- hinekaya  
 Calcination -- tukh-fasan  
 Calcine -- fasu-tukh  
 Calcite -- gav-khush-tukh  
 Calcitonin -- hinek-dau-tukh  
 Calcium -- hinek-tukh  
 Calcium carbonate -- gavu t'hinek-tukh  
 Calcium chloride -- lafu t'hinek-tukh  
 Calculus -- pitoh-su'us-ek'tal (math.); nafek-kov (med.)  
 Caldera -- ne'hal-zul-razh  
 Calendar -- gad-besan  
 Calf (anat.) -- vaukh  
 Caliber, Calibre -- wun-fna-thon (gun), mev-fna-thon (pipe)  
 Californium -- keh-tukh  
 Caliper(s) -- mes-thonek  
 Call (v.) -- vutau  
 Call (out) to -- shoret  
 Called, to be (communication) -- puvutau  
 Called, to be (named) -- wimish  
 Callous (anat.) -- stein  
 Calm -- hayal  
 Calorescence -- ha'gel-vish-vasaya  
 Calorific value -- falek'es-saprah-tala  
 Calyx (botany) -- svai-mortra  
 Cam -- ok  
 Camber -- aberala-tchakat (aero.); abru-tchakat (eng., mech.)  
 Cambium (botany) -- to'ovau-tin t'lap-vukhut  
 Cambium (med.) -- tvi-tin t'hinek-nalatra-wein  
 Campanulate -- kus-vakh-shidik  
 Camshaft -- ok-fek  
 Camera -- glayek  
 Camouflage -- pasut, pasutau  
 Campaniform -- ub-shidik  
 Campanile -- kus-vakh-kispek

Campanulate -- kus-vakh-shidik  
 Can (container) -- mokuhle  
 Can (v.) -- kup  
 Canal -- mev (botany); masu-yut (waterway)  
 Canard -- fa-rala  
 Cancer -- rasahtra  
 Candle(stick) -- ha'fek  
 Canker (sore) -- wuk  
 Cannibalism -- sha'ves-yokulan  
 Cannon -- thorshun (old contraction of "thorsh-wun")  
 Canopy -- krein (aero.); lap-wein-tin (botany); tevan-sai-vukhut  
 Cantilever -- wuh-nodol-zeh  
 Cantilever bridge -- wuh-nodol-zehik mesut  
 Canyon -- spathel  
 Cap (hat) -- taik  
 Capacitance -- tsor'es  
 Capacitor -- tsorek  
 Capacity -- tsoh  
 Capillary -- pi'khaf-mev  
 Captain (n.) -- ot-lan (army/marines); khart-lan (naval/Starfleet)  
 Capture -- kum, kum-tor  
 Caravan -- nik'el (anc.)  
 Carbon -- nol-tukh  
 Carbon cycle -- ha-da-nel t'nol-tukh  
 Carbon dioxide -- dah-eshu t'nol-tukh  
 Carbon disulfide -- dah-vlau'u t'nol-tukh  
 Carbon fixation -- nol-tukh-nodolaya  
 Carbon monoxide -- eshu t'nol-tukh  
 Carbon star -- nol-tukh-yel  
 Carbon steel -- nol-tukh-pishek  
 Carbon tetrachloride -- keh-lafu t'nol-tukh  
 Carbon value -- nol-tukh-tala  
 Carbonaceous -- nol-tukh-tuhlauk  
 Carbonic acid -- sash t'masu-reh-eshu  
 Carbuncle -- pi'takra  
 Carburetor -- hal-sov-mishek  
 Carcinogen -- rasahtra-torek  
 Carcinoma -- wein-nala-rasahtra  
 Card (n.) -- nop  
 Cardassian -- Kardassu  
 Cardiac arrest -- khaf-spol-pehkaya  
 Cardiac muscle -- khaf-spol-dvunek  
 Cardioblast -- tveshu-nala t'khaf-spol svi'ten-kan-bu  
 Cardiology -- khaf-spol-tal  
 Cardiomalacia -- ritsuri-kobatau-nosh t'khaf-spol-dvunek  
 Cardiomyopathy -- has t'khaf-spol-dvunek  
 Cardiovascular system -- khaf-ifis-torektra  
 Carditis -- khaf-spol-yonshaya  
 Care -- tun, tun-tor  
 Care for (like) -- tishau  
 Care for (tend) -- palutunau  
 Careful -- tun-bosh  
 Cargo -- tusla

Cargo bay -- tusla-sutauk  
 Cargo hold -- tusla-tsorau-shal  
 Cargo module -- tusla-natel  
 Cargo pod -- tusla-tvi'haf  
 Cargo storage complex -- tusla-tsorau-keltra  
 Cargo transporter -- tusla-ifisek  
 Cargo unit -- tusla-kebi  
 Carmine (red color) -- kran-kur  
 Carnelian -- pelkev  
 Carnivore -- kahm-yokulsu  
 Carnophobia -- kahm-pthak  
 Carotene -- kas-zhar-kurek  
 Carotid artery -- uzh-khaf-mev t'talu  
 Carpal -- kar-nik-hinek  
 Carpel -- kas-ko-krus  
 Carpus -- kar-nik  
 Carrier -- leshek  
 Carrier filter -- lesh-kapol  
 Carrier wave -- lesh-pral  
 Carry -- lesh  
 Carry out (to do) -- fitor  
 Cart (n.) -- hal (anc.)  
 Cartilage -- rihinek  
 Cartilagification -- rihinekaya  
 Cartography -- besan-tanaf  
 Cartridge -- svekh  
 Carve -- skrim-tor  
 Carving (n.) -- skrim  
 Caryopsis -- yartik-savas  
 Cascade -- ash-yumau, ash-yumaya  
 Case (event) -- nuf  
 Casein -- thas-tesihk  
 Caseous -- thuhk-kahk  
 Casket -- natuhn (box); tevikeh-natuhn (coffin)  
 Cast (v.) -- vishizhau (manufacturing); lehm-tor (throw)  
 Cast iron -- vishizh-shek(-tukh)  
 Cast out (v.) -- dakh (anc.)  
 Cast steel -- vishizh-pishek(-tukh)  
 Cast stone -- vishizh-kov  
 Catabiosis -- tsuri nala-shakhuvaya  
 Catabolism -- tepul-torek  
 Catadromous -- yolmatrupik  
 Catalyst -- torai-tukh  
 Cataphyll -- neik-rimor  
 Cataplexy -- zherka-kobatau-nashiv  
 Catapult (n.) -- sashizhek  
 Cataract (med.) -- bezhun-ripa'shaya  
 Catarrh -- tvi-votaya t'prash-nala-tin  
 Catch (v.) -- kum, kum-tor  
 Catheter -- smashau-mev  
 Cathode -- u'rak-narafek  
 Cathode-ray tube -- u'gal-zehl-mev  
 Cation -- a'rak-falun-krus

Catoptrophobia -- haulat-pthak  
 Cattle -- kahtel (Vulcanized Terran word)  
 Catwalk -- mesah  
 Caudal fin -- harr-ralek  
 Caudate -- harr-ma-, harr-mayik  
 Cauldron, Caldron -- fas-matuhlek  
 Caulescent -- kas-fek-mayik  
 Caulk -- mafen, mafen-tor  
 Cause -- aisha, aishan  
 Caustic (n.) -- yontau-meil  
 Caution -- yuzhat, yuzh-tor  
 Cave -- tauk  
 Cavern -- suk'tauk  
 Cavity -- pi'tauk (body); zud-razh (tooth)  
 Cay -- neik-vikuvtra  
 Ceiling -- abru-tol  
 Cell (biology) -- nala  
 Cell culture -- nala-litra  
 Cell cycle -- nala-da-nel  
 Cell differentiation -- nala-natyantek  
 Cell division -- nala-dahshaya  
 Cell fusion -- nala-kaunshaya  
 Cell growth -- nala-to'ovaya  
 Cell membrane -- nala-wein  
 Cell wall -- nala-temok  
 Cellular -- nalatik  
 Cellulitis -- nalatra-yonshaya  
 Cellulose -- nen-kas-tukh  
 Cement (n.) -- kluterek  
 Center -- svitan  
 Center of action -- torai-svitan  
 Center of buoyancy -- abmarkan'es-svitan  
 Center of gravity -- ne-seshan-svitan  
 Center of mass -- shivak-svitan  
 Center of pressure -- ne'hish-svitan  
 Center of symmetry -- talikal-svitan  
 Central force -- svitan-nekwitaya  
 Central nervous system -- nen-wel-torektra  
 Central processing unit (CPU) -- svitan-patorau-kebi (t'tum-vel)  
 Centrifugal brake -- sadan-vohrayek  
 Centrifugal casting -- sadan-vishizhaun  
 Centrifugal clutch -- sadan-runemek  
 Centrifugal fan -- sadan-sovek  
 Centrifugal force -- sadan-nekwitaya  
 Centrifugal pump -- sadan-spol  
 Centrifuge (n.) -- (sadan-)dahshayek  
 Centripetal force -- vidan-nekwitaya  
 Centromere -- toltra-tersau-vel  
 Cephalgia -- patam-kusut  
 Ceramic -- kriz-, krizik  
 Cerebellum -- dvunek-tash-svitan  
 Cerebral abscess -- shad-pi'tak  
 Cerebral blood flow -- shad-khaf-yumaya

Cerebral cortex -- si-tin t'nahp-tash-svitan  
 Cerebral hemorrhage -- shad-khafaya  
 Cerebral tumor -- shad-gnal  
 Cerebrum -- nahp-tash-svitan  
 Ceremony -- van-kal (anc.)  
 Cerium -- pran-tukh  
 Certificate -- to-kisev  
 Cerulean (sky blue) -- igen-kur  
 Cervical vertebra -- talu-hinek  
 Cervix -- sudef-talu  
 Cesium, Caesium -- zhaimasu-tukh  
 Chaetophobia -- isachya-pthak  
 Chain (made of links) -- naf-elakh (TGV), naflakh (MGV)  
 Chain (series) -- weizehl  
 Chain block -- naflekh-aberau-vihpan  
 Chain conveyor -- naflekh-zheleshek  
 Chain locker -- naflekh-tvi-shal  
 Chain pump -- naflekh-spol  
 Chain reaction -- weizehl-folaya  
 Chain wheel -- naflekh-halek  
 Chair -- ku-san (anc.)  
 Chalk -- gav  
 Chalk line -- gav-zehl  
 Challenge -- kali-fi, kali-tor  
 Chamber -- tvi-shal  
 Champion -- skilamu (anc.)  
 Change -- rubah, rubai  
 Changed, to be -- purubai  
 Channel (n.) -- glantokau-yut (telecomm.); faik-yut (computer); mashyut (water)  
 Chaos -- nezhak  
 Char (v.) -- yonol-tor  
 Characteristic (n.) -- noshtra  
 Charcoal (n.) -- yonol-tukh  
 Charge (n., elect.) -- falun  
 Charge (v.) -- vifalunau  
 Charger (device) -- vifalunek  
 Charging circuit -- vifalun-raf-kuv  
 Charging current -- vifalun-katrom  
 Charging voltage -- vifalun-toruk'es  
 Chart -- besan; besau  
 Chartreuse -- tehk-kur  
 Cheat (v.) -- kravau  
 Check (v.) -- rihamau  
 Check digit -- rihamau-un  
 Check valve -- pla-yumau-spunek  
 Cheek -- nak  
 Cheese -- thuhk  
 Chef -- opilsu  
 Cheilitis -- bru-yonshaya  
 Chemical -- meil(-tukh)  
 Chemical balance -- meil-vo'ektaya  
 Chemical bond -- meil-tel  
 Chemical compound -- meilaktra

Chemical energy -- meil-tepul  
 Chemical equation -- meil-vo'ihn  
 Chemical reaction -- meil-folaya  
 Chemiluminescence -- meil-dakh-ha'tanaya  
 Chemistry (study) -- meil-tal  
 Chernozem -- nesh-solek  
 Chert -- kohv-mazhiv-kov  
 Chest (anat.) -- tuf  
 Chew (v.) -- nal-tor  
 Chief petty officer -- feihan  
 Chilblain -- samek-yontaya  
 Child -- kan  
 Childbirth -- kan-keshtan  
 Childhood -- kan-wak  
 Children -- kanu (TGV), kanlar (MGV)  
 Chiller (device) -- samuyek  
 Chime (n.) -- kusek  
 Chimney -- vuzh-mev  
 Chine -- vukh-rihk  
 Chinook (wind) -- lamekh-suk'kunel-salan  
 Chip (n.) -- val  
 Chiralgia -- el'ru-kusut  
 Chitin -- yol  
 Chlorinate -- lafitau  
 Chlorination -- lafitaya  
 Chlorine -- laf-tukh  
 Chlorophyll -- kas-yar-kurek  
 Choice -- dvel  
 Choke (v.) -- khluhkau  
 Chondroma -- rihinek-gnal  
 Chondromalacia -- rihinek-mosaya  
 Chondrosarcoma -- rihinek-rasahtra  
 Choose -- dvel-tor  
 Chosen, to be -- pudvel-tor  
 Chromatic circle -- kur-da-kuv  
 Chromatid -- toltra-kan  
 Chromatin -- toltra-tukh  
 Chromic acid -- sash t'slau-keh-eshu  
 Chrominance -- kur-thon'es  
 Chromium -- slau-tukh  
 Chromodynamic light -- kur-toranu-ha'gel  
 Chromoelectric force field -- fosh-vunai t'kur-raf-tepul  
 Chromosome -- toltra  
 Chromosome mapping -- toltra-besaun  
 Chromosome set -- toltra-eku  
 Chromosome sorting -- toltra-wihfelaun  
 Chroniton -- wak'gal  
 Chroniton beam -- wak'gal-zehl(ek)  
 Chronometer -- wak-vel  
 Chronophobia -- wak-pthak  
 Chyle -- thel'a-yak(-masu)  
 Chyluria -- ritsuri-nosh t'thel'a-yak svi'vazh  
 Chyme -- ulef-skaun-yemtra

Cicatrix -- ulidar  
 Cilium -- nala-isach  
 Cinder cone -- vitush-kunel  
 Cinnabar -- masumok-tukh-van, vlau'u t'masumok-tukh  
 Circadian rhythm -- gad-da-nelik tvi-farr-dath  
 Circinate (botany) -- pakuvauk  
 Circle (n.) -- da-kuv  
 Circuit -- raf-kuv  
 Circuit breaker -- raf-kuv-shayek  
 Circuit diagram -- raf-kuv-ufesan  
 Circuit relay -- raf-kuv-gol'dvunek  
 Circuitry -- raf-kuvtra  
 Circular -- raf-kuv-, raf-kuvik  
 Circular measure -- raf-kuv-thon  
 Circular polarization -- raf-kuv-narakaya  
 Circular saw -- raf-kuv-zuneshek  
 Circular velocity -- raf-kuv-threshan  
 Circulate -- da-kuvau  
 Circulating current -- da-kuvau-katrom  
 Circulating pump -- da-kuvau-spol  
 Circulation -- da-kuvaya  
 Circulator -- da-kuvayek  
 Circulatory system -- da-kuvau-torektra  
 Circumference -- pa-thon t'da-kuv  
 Circumnutation -- kulan-to'ovaya  
 Cirque (geol.) -- ku-li-razh  
 Cirrocumulus (cloud) -- tra-tcha-wan  
 Cirrostratus (cloud) -- tin-tcha-wan  
 Cirrus (cloud) -- tcha-wan  
 Citric acid -- savas-sash  
 City -- kahr  
 Civilization -- sutenivaya  
 Clamp (n.) -- stek  
 Clan -- maat  
 Clarifier (device) -- pa'shayek  
 Clarify (explain) -- starpa'shau  
 Class (n.) -- mohrn  
 Classification -- mohrnaya  
 Classify -- mohrnau  
 Claustrophobia -- ikap-shal-pthak  
 Clavicle -- dol-hinek  
 Claw (n.) -- spahk  
 Clay -- krizhiv  
 Clean (v.) -- pu-tor  
 Clear (transparent) -- pa'shi-, pa'shik  
 Clear (v.) -- pa'shau  
 Clear air turbulence -- pa'shi-sov-wauk  
 Cleave (v., split) -- thresh-tor  
 Cleaver -- threshhek  
 Cleft -- thresh  
 Cliché -- pstheran  
 Cliff -- menal  
 Climate -- ek'nosh

Climate control -- ek'nosh-tash  
 Climatic change -- ek'nosh-rubah  
 Climatic trend -- ek'nosh-venek  
 Climatic zone -- ek'nosh-shal  
 Climatology -- ek'nosh-tal  
 Climb (v.) -- man-tor  
 Clinic -- pi'shi'has  
 Clinometer -- (el'ru-)vul-thonek  
 Clinophobia -- sar-tak-pthak  
 Clitoridectomy -- ko-lok-snem  
 Clitoris -- ko-lok  
 Cloaca (zoology) -- ek'shaht-razh  
 Cloak (clothing) -- to-sai  
 Clock -- wak-vel  
 Clod -- (solek-)vihk  
 Clone (v.) -- tolasau  
 Close (adj.) -- beyi-, beyik  
 Close (v.) -- ikap-tor  
 Closed (adj.) -- ikap-, ikapik  
 Closed canopy (botany) -- ikap-lap-wein  
 Closed circuit (n.) -- ikap-raf-kuv  
 Closed interval -- ikap-tvi-eku  
 Closed loop (n.) -- ikap-pakuv  
 Closed set -- ikap-eku  
 Closed subroutine -- ikap-ne-faikhartek  
 Clot (n.) -- vihk  
 Cloth -- sai  
 Clothes, Clothing -- sai-vel  
 Cloud (n.) -- wan  
 Cloud bank -- wantra  
 Cloud chamber -- wan-pi'shal  
 Cloud cover -- wan-wein  
 Cloudiness -- wan-sateh'es  
 Club (n.) -- muhd (anc.)  
 Clutch (mech.) -- dan-runemek  
 Clutter (n.) -- pa-guhsh  
 Cnidoblast -- ten-rakus-nala  
 Coagulant -- vihk-tukh  
 Coagulum -- vihk  
 Coal -- kastik-kov  
 Coalesce -- tert'o'ovau  
 Coarse -- dir-, dirik  
 Coast (n.) -- gef  
 Coat (clothing) -- to-pal (anc.)  
 Coating -- fi-wein  
 Coaxial antenna -- dah-da-sfekik kash-ral  
 Coaxial cable (coax) -- elakh t'dah-da-sfek (EDDS)  
 Coaxial filter -- dah-da-sfekik kapol  
 Coaxial relay -- dah-da-sfekik gol'dvunek  
 Cobalt -- pla-tukh  
 Cobalt chloride -- dah-lafu t'pla-tukh  
 Coccolith -- guv-smol-mathra  
 Coccus -- dukal-talvot



Coccygeal vertebra -- harr-hinek  
 Coccyx -- harr-hinektra, tvi-harr  
 Cochlea -- tvi-kaluk-pakuv  
 Cockpit -- hashsu-shal  
 Cocoon (n.) -- rada-wein  
 Code (n.) -- kiht  
 Coding capacity -- kihtau-tsoh  
 Coding sequence -- kihtau-zehlanaya  
 Coefficient -- kakratulek  
 Coeliac -- feshek-, feshekik  
 Coelom -- wuhr-vukhut-pi'tauk  
 Coenzyme -- dah-zalu  
 Coevolution -- ter-wakrubaya  
 Cofactor -- ter-klai  
 Coffin -- tevikeh-natuhn  
 Cog -- halek-zud  
 Coherent (adj.) -- thak-, thakik  
 Coherent neutrino beam -- thak-ska'gal-zehl(ek)  
 Coherent pulse -- thak-sagaya  
 Cohesion -- terepaya  
 Coil (n.) -- pakuv  
 Coil spanner -- pakuv-mish-raul  
 Coin (n.) -- buhn (anc.)  
 Cold (adj.) -- samek(-)  
 Cold front -- samek-praduk  
 Colitis -- pekh-mev-yonshaya  
 Collagen -- rinalaik slah-ketek  
 Collapse -- neshau, neshaya  
 Collate -- krus-zekau  
 Colleague -- kazhuksu  
 Collect -- ter-shau  
 Collection -- ter-shaya  
 Collector -- ter-shausu  
 Collide -- terkwul-tor  
 Collider (device) -- terkwulek  
 Collision -- terkwul  
 Collision bulkhead -- terkwul-tvi-temok  
 Colon -- pekh-mev  
 Colonel -- shal-lan  
 Colony -- sashila  
 Color -- kur, kur-tor  
 Color analyzer -- kur-nisayek  
 Color balance -- kur-vo'ektaya  
 Color blindness -- kur-glan-fam  
 Color correction -- kur-yehtan  
 Color filter -- kur-kapol  
 Color picture -- kur-bikuv  
 Color separation -- kur-dahshaya  
 Color temperature -- kur-falek'es  
 Color vision -- kur-glan  
 Colorimeter -- kur-thonek  
 Colorimetry -- kur-thon  
 Colostomy -- pekh-mev-sharutaya

Colpitis -- keshtan-ur-yonshaya  
 Colpocele -- keshtan-ur-faka  
 Colpoptosis -- keshtan-ur-set  
 Colposcope -- keshtan-urik zan-vel  
 Colpospasm -- keshtan-ur-runev  
 Column (structural) -- tsek  
 Coma -- ritevakh (med.); zehl-yel-tam (head of a comet)  
 Comb -- (isachya-)dref, dref-tor  
 Combat (n.) -- morov (anc.)  
 Combination -- terish  
 Combine (v.) -- terish-tor  
 Combined, to be -- puterish-tor  
 Combust -- yontau  
 Combustion -- yontaya  
 Combustion chamber -- yontau-tvi-shal  
 Come -- sarlah  
 Come out (v.) -- sasarah  
 Comet -- zehl-yel  
 Command (v.) -- khartau  
 Command processor -- khartau-patorayek  
 Commander (naval/Starfleet) -- zhel-lan  
 Commence -- palikau  
 Commencement -- palikaya  
 Comment -- tuhskau, tuhs kaya  
 Commission -- kadvin, kadvin-tor  
 Commissioned, to be -- pukadvin-tor  
 Commit -- kugau  
 Commitment -- kugaya  
 Commodore -- travek-lan  
 Common -- tsuri(-)  
 Communicate -- sviribau  
 Communication -- sviribaya  
 Communications laser -- sviribau-ha'zehlek  
 Communications relay -- sviribau-gol'dvunek  
 Communicator -- sviribayek  
 Community -- shila (town); ha-travek (biology)  
 Compact (v.) -- lerakhovau  
 Compactor -- lerakhovau-vel  
 Companion -- besu  
 Companionship -- besu'es  
 Compass (n.) -- seshan-kharat-thonek  
 Compassion -- utan'es  
 Compensate -- torabrau  
 Compensator -- torabrayek  
 Compete -- kuhlau  
 Competition -- kuhlaya  
 Competitive exclusion -- kuhlau-sanan  
 Compile -- travilau  
 Compiler (device) -- travilayek  
 Complete (adj.) -- ovsot(-), ovsotik  
 Complete (v.) -- ovsoh (anc.)  
 Complex (adj.) -- wehkon-, wehkonik  
 Composite -- tertin; tertitau

Compositor -- tertitayek  
Compound (chem.) -- meilaktra  
Compress (v.) -- lerakhovau  
Compressed air -- lerakh-sov  
Compression -- lerakh'es  
Compressor -- lerakovayek  
Compulsion -- riyeht-aitlun  
Computer -- tum-vel  
Computer bank -- tum-vel-kutra  
Computer bay -- tum-vel-sutauk  
Computer core -- tum-vel-tviyan  
Computer display -- tum-vel-gluyayek  
Computer interface -- tum-vel-tvihanek  
Computer memory -- tum-vel-vokaya  
Computer science -- tum-vel-ek'tal  
Concave -- vi-tauk-, vi-taukik  
Conceal -- ip-sut (anc.)  
Concolorate (zoology) -- ka-kur-vlaik  
Concrescence -- vinokaya  
Concrete (material) -- nok  
Concussion (med.) -- kwul-kolaya  
Condensation -- sasov-saya (process); sasov-masu (liquid)  
Condensation nucleus -- svitan-vel t'sasov-saya  
Condenser (chem.) -- sasov-mashayek  
Condition(s) -- nosh  
Conduct (v.) -- spa-tor  
Conduction -- span  
Conductive -- spa-, spayik  
Conductivity -- spa'es  
Conductor (elect.) -- spayek  
Cone -- thav (botany); ikun (geom. shape)  
Confidence -- guhl'es  
Configuration -- pazekaya  
Configure -- pazekau  
Confirm -- wugau  
Confirmation -- wugaya  
Confluence -- teret-yumaya  
Confront -- nagau  
Confrontation -- nagaya  
Conglomerate (geol.) -- teret-kov  
Conic section -- ikun-fna-krus  
Conifer -- thav-lap  
Connect -- tersau  
Connecting dorsal -- tersau-ralek  
Connection -- tersaya  
Connective tissue -- tersau-nalatra  
Connectivity -- tersa'es  
Connector -- tersayek  
Consanguinity -- teret-zulan'es  
Consciousness -- hokni'es  
Conservation -- korsaya  
Conserve -- korsau  
Consider -- panah-tor

Consistency -- tsurkan'es  
 Consistent -- tsurkan-, tsurkanik  
 Consolidate -- lerasha  
 Consolidation -- lerashan  
 Constant -- ek'ka-, ek'kayik (adj.), ek'kat (n.)  
 Constellation -- yel-nel-dath  
 Construct -- torvau  
 Construction -- torvaya  
 Constructive -- torvau-, torvauk  
 Consummate (v.) -- plathau  
 Contain -- tuhlau  
 Container -- tuhlek  
 Containment field -- tuhlau-vunai  
 Containment system -- tuhlau-torektra  
 Contaminate -- rislau  
 Contamination -- rislaya  
 Contents -- tuhllar  
 Continent -- ek'kovtra  
 Continental climate -- ek'kovtra-ek'nosh  
 Continental drift -- ek'kovtra-dvun  
 Continental plate -- ek'kovtra-math  
 Continental shelf -- sagefik ek'kovtra-sadvun-nef  
 Continental slope -- gosh-nefik ek'kovtra-sadvun-vul  
 Continue -- fator  
 Continuity -- fator'es  
 Continuum -- ek'eku  
 Control -- tash, tash-tor  
 Control board -- tash-dohn  
 Control circuit -- tash-raf-kuv  
 Control column -- tash-el'rek  
 Control console -- tashal (old contraction of "tash-shal")  
 Control current -- tash-katrom  
 Control panel -- tash-math  
 Control pedestal -- tash-nelka  
 Control rod -- (folayek-)tash-fek  
 Control voltage -- tash-toruk'es  
 Controlled, to be -- putash-tor  
 Controller -- tashkek (device); tashsu (person)  
 Contusion -- wadi-yarek  
 Convection -- da-kuv-falek'es  
 Converge -- teretau  
 Convergence -- teretaya  
 Convergent evolution -- teretau-wakrubaya  
 Convergent lens -- teretau-gelek  
 Convergent thinking -- teretau-nahan  
 Conversion -- rushan  
 Conversion factor -- rushan-klai  
 Conversion gain -- rushan-nazh  
 Conversion loss -- rushan-pak  
 Conversion ratio -- rushan-tavat  
 Convert (n.) -- rushansu  
 Convert (v.) -- rushan-tor  
 Converter -- rushanek

Convex -- satauk-, sataukik  
 Convey -- zhelesh  
 Conveyer -- zheleshek  
 Convoy -- nik'el (anc.)  
 Convulsion (med.) -- mahai  
 Cook -- fassu; fas-tor  
 Cooked, to be -- pufas-tor  
 Cool (adj.) -- samu(-)  
 Cool (v.) -- samuyau  
 Coolant -- samuyau-tukh  
 Cooler (n.) -- samuyek  
 Cooperate -- terkadau  
 Cooperation -- terkadaya  
 Coordinate (n.) -- shi-kethel  
 Coping saw -- tsa-zuneshek  
 Copper -- khaf-tukh  
 Copper ore -- yar-tukh, eshu t'dah-khaf-tukh  
 Copper sulfate -- vlau-keh-esku t'khaf-tukh  
 Coprophobia -- pekh-pthak  
 Copse -- pi'laptra  
 Copy -- va'asau, va'asaya  
 Cord -- elakh  
 Cordate -- khaf-spol-shidik  
 Corditis -- elakh-yonshaya  
 Core (n.) -- tviyan  
 Core sample -- tviyan-li-fal  
 Cornea -- bezhun-wadi  
 Corneous -- stonn-lef'es-kahk  
 Corner (n.) -- teruk  
 Corolla -- kur-mortra  
 Corona (astron., meteor.) -- pau  
 Coronary artery -- uzh-khaf-mev t'khaf-spol  
 Coronary bypass -- khaf-spol-pamutaya  
 Coronary circulation -- da-kuvaya t'khaf-spol-dvunek  
 Coronary occlusion -- khaf-spol-klotaya  
 Coronary thrombosis -- vihk-klotaya t'khaf-spol  
 Corporal (rank) -- neksu  
 Corpse -- tevikeh (old contraction of "tevik-veh")  
 Corpuscle -- el-nala  
 Correct -- yeht, yeht-tor  
 Correction -- yehtan  
 Corridor -- tvur  
 Corrie (geol.) -- ku-li-razh  
 Corrode -- meilokul  
 Corrosion -- meilokulan  
 Cortex -- si-wein  
 Corundum -- yon-khush  
 Cosecant -- vath-sfek-aus  
 Cosine -- vath-tavat-zes  
 Cosmic dust -- stukh-grazhiv  
 Cosmic rays -- stukh-ha'zehllar  
 Cosmology -- stukhtra-tal  
 Cosmos -- stukhtra

Cotangent -- vath-sfek-vel  
 Cotyledon -- wuhr-nei-mor  
 Cough -- huhsh, huhsh-tor  
 Could -- kupa-  
 Council -- shikh-orna  
 Count (v.) -- tum-tor  
 Counter (device) -- tumek  
 Countermeasures -- tehnokatlar  
 Country (nation) -- shasol (anc.)  
 Couple (n.) -- shif  
 Coupler -- teretek  
 Coupling -- tersayek  
 Courier -- skladasu  
 Course -- rivak  
 Course correction -- rivak-yehtan  
 Course programming panel -- rivak-tumau-math  
 Courteous -- nuhk  
 Courtesy -- nuhk'es  
 Cove -- pi'tchol  
 Cover -- wein, wein-tor  
 Cover glass -- wein-makh  
 Cover paper -- wein-dun  
 Cover slip -- numakh-wein  
 Cowl -- weinat  
 Crack -- treshau, treshaya  
 Craft (vehicle) -- hali  
 Cramp -- runelau, runelaya  
 Crane (n.) -- aberayek  
 Crane barge -- aberayek-(masu-)hali  
 Crane magnet -- seshan-vel-aberayek  
 Crane motor -- aberayek-mishu  
 Cranial nerve -- patam-wel  
 Cranium -- patam-hinektra  
 Crank (n.) -- el'dayek (hand); dvudayek (mech.)  
 Crankcase -- dvudau-natuhn  
 Crankshaft -- dvudau-fek  
 Crash -- tevul, tevulau; tevul-tor  
 Crash test -- tevul-nisan  
 Crater -- kwul-razh (impact); zul-razh (volcano); thorsh-razh  
 Crawl (v.) -- ukrau  
 Create -- fereik-tor  
 Creation -- fereikan  
 Creative -- fereik  
 Creativity -- fereik'es  
 Creator -- fereiksu  
 Creator, The (God) -- Ofereiksu  
 Crepuscular -- torupik du'neik-ha'gel-wak  
 Crest -- dan-pid-sfek (geol.); sazasfek  
 Crevasse -- glu-treshaya  
 Crevice -- treshaya  
 Crew (n.) -- (hali-)sutra  
 Crewman (rank) -- nensu  
 Crimp -- hesvulau, hesvulaya

Crimson -- hirat-kur  
 Crisis -- burun  
 Crisscross (n.) -- tuhs-tuhs  
 Cristate -- sazasfek-mayik  
 Critical -- burun-, burunik (in a crisis); bol-, bolik (vital)  
 Critical angle -- bol-vul  
 Critical frequency -- bol-vakav'es  
 Critical humidity -- bol-sov-masu'es  
 Critical mass -- bol-shivak  
 Critical pressure -- bol-ne'hish  
 Critical rate -- bol-tav  
 Critical size -- bol-suk'es  
 Critical speed -- bol-threshan  
 Critical temperature -- bol-falek'es  
 Critical voltage -- bol-toruk'es  
 Critical volume -- bol-mog'es  
 Crop(s) -- urozh (anc.)  
 Cross -- tuhs, tuhsau; mes-tor  
 Cross fire -- tuhs-pohshaun  
 Cross hair -- tuhs-isach  
 Cross section -- fna-krus  
 Cross-breeding -- rish-kosh-vesaya  
 Cross-country (adj.) -- mes-solektra-, mes-solektraik  
 Cross-cultural -- mes-iyula-, mes-iyulaik  
 Cross-examination -- tuhs-linisaya  
 Cross-examine -- tuhs-linisau  
 Cross-eyed -- tuhs-bezhun-, tuhs-bezhunik  
 Cross-fertilization -- rish-vikantaya  
 Cross-index (v.) -- mes-nakh-tor  
 Cross-legged (adj.) -- tuhs-mal-, tuhs-malik  
 Cross-national -- mes-shasol-, mes-shasolik  
 Cross-pollinate -- rish-kas-vikantau  
 Cross-pollination -- rish-kas-vikantaya  
 Cross-reference (n.) -- tuhs-dzhinaya  
 Crossable -- mes-yehat  
 Crossbar -- tuhs-mofek  
 Crossbow -- dvudau-kes-wun  
 Crossbreed (n.) -- rish-ha-vel  
 Crosscurrent -- mes-katrom  
 Crosscut saw -- tuhs-nesh-zuneshek  
 Crossing -- mes (place where crossed); mesan (act of crossing)  
 Crossover (n.) -- abru-mes  
 Crossroad -- tuhs-yut  
 Crosstown (adj.) -- mes-kahr-, mes-kahrik  
 Crosswalk -- su-mes  
 Croup (med.) -- kan-huhsh  
 Crowbar -- ihv-mofek  
 Cruciate -- tuhs-shidik  
 Crucible -- klim-yerak  
 Crucible furnace -- klim-yerak-fasek  
 Crucible tongs -- klim-yerak-el'abrashayek  
 Cruciform -- tuhs-shidik  
 Cruise control -- shati-threshan-tashek

Cruise missile -- besan-yon-kliton  
 Crumble (v.) -- snaipau  
 Crush (v.) -- plesh-tor  
 Crust (n.) -- puhnk (bread, etc.), si-kov-shal (geol.)  
 Cry -- maf, maf-tor  
 Cryogenic (adj.) -- samu-tor-, samu-torik  
 Cryogenic fluid -- samu-tor-masu  
 Cryogenics -- samu-tukh-tal  
 Cryometer -- samu-thonek  
 Cryophilic -- samek-ashauk  
 Cryophobia -- samu-pthak  
 Cryosphere -- le-suma-ek'shal  
 Cryostat -- samu-dvelek  
 Crypt -- brag  
 Cryptozoic -- ip-hatik  
 Cryptozoology -- tal t'ip-ha-vellar  
 Cryptozoon -- ip-ha-vel  
 Crystal -- khush  
 Crystalline -- khushik  
 Crystallization -- khushaya  
 Crystallize -- khushau  
 Crystallography -- khush-ek'tal  
 Cubbyhole (n.) -- sha'ti (anc.)  
 Cube (n.) -- sheh-muk (shape); rehs'us (number)  
 Cube (v.) -- rehsau  
 Cube root -- rehs'us-gir  
 Culm -- lesek-pi'fek  
 Cultivate -- sokasitau  
 Cultivation -- sokasitaya  
 Cultivator (equip.) -- sokasitayek  
 Culture (n.) -- iyula (beliefs & customs, etc.); sokulm (biology)  
 Culvert -- smash-yut  
 Cumulative (adj.) -- tabruk-, tabrukik  
 Cumulonimbus (cloud) -- tra-masu-wan  
 Cumulus (cloud) -- tra-wan  
 Cuneate -- shivek-shidik  
 Cuneiform -- shivek-shidik (adj.); shivek-kitaun (writing)  
 Cup -- monek  
 Cupboard -- tsorayek  
 Cupola -- relk  
 Curb (n.) -- yut-del  
 Cuprite (a copper ore) -- eshu t'dah-khaf-tukh  
 Cupulate -- monek-shidik  
 Cupule -- monek-vel  
 Curable -- bohrau-yehat  
 Curative (n.) -- bohrau-tukh  
 Cure -- bohrau, bohraya  
 Curettage -- has-theshaya  
 Curet, Curette (n.) -- has-theshayek  
 Curium -- dah-tukh  
 Curl (n.) -- tcha  
 Currency (money) -- donku  
 Current -- katrom (elect., hydro.); masutra-pilash (ocean.)



Curtail -- pen-tor  
 Curtain (n.) -- skahan (pl. skahanu)  
 Curvature -- tchakat  
 Curve (n.) -- tsa  
 Curvilinear -- tsa-zehl-, tsa-zehlik  
 Cusp -- sfek  
 Cuspidate -- sfek-mayik  
 Custody -- to-tashan  
 Custom (n.) -- oyut  
 Custom-built (adj.) -- wuhin-torvalik  
 Custom-made (adj.) -- wuhin-tortik  
 Customary -- oyut-, oyutik  
 Customer -- klepovausu  
 Cut -- nesh, nesh-tor  
 Cutaneous -- wadi-, wadiyik  
 Cute -- petakov (anc.)  
 Cuticle (nail) -- felu-nen-wadi  
 Cutter (device) -- neshek  
 Cyan (color) -- hish-pla-kur  
 Cyanic acid -- nol-sov-sash  
 Cyanide -- nol-sovu  
 Cyanobacterium -- pla-yar-talvot  
 Cyanogen -- nol-sov-tukh  
 Cyanosis -- (ritsuri) pla-wadi-nosh  
 Cyanotic -- pla-wadi-noshik  
 Cyberneticist -- kritash-ek'talsu  
 Cybernetics -- kritash-ek'tal  
 Cyborg -- kritashsu  
 Cycle (n.) -- da-nel  
 Cyclic (adj.) -- da-nel-, da-nelik  
 Cyclist -- haleksu  
 Cyclometer -- halek-dan-thonek  
 Cyclone -- suk'sov-dan  
 Cylinder -- tu'mev  
 Cylindrical -- tu'mev-shidik  
 Cyma -- oluhk-tsa  
 Cymbal -- bling  
 Cymophobia -- pral-pthak  
 Cynic -- linsu  
 Cynical -- lin-, linik  
 Cynicism -- lin'es  
 Cynopodous -- si-spahk-ash'yaik  
 Cyst -- shaf  
 Cystic -- shaf-, shafik  
 Cystitis -- vazh-shal-yonshaya  
 Cystoscope -- vazhaf-zan-vel  
 Cystostomy -- vazhaf-tu'ashan  
 Cystotomy -- vazhaf-neshan  
 Cytochemistry -- nala-meil-tal  
 Cytogenetics -- nala-tol-tal  
 Cytology -- nala-tal  
 Cytophilic -- nala-ashauk  
 Cytoplasm -- (nen-)nala-tukh

Cytoskeleton -- nala-nenikaya  
 Cytostatic -- nala-pehkauk  
 Cytotechnologist -- nala-shasutansu  
 Cytotechnology -- nala-shasutanan  
 Cytotoxic -- nala-hasamik  
 Cytotoxin -- nala-hasam  
  
 Dacryo-adenitis -- yonshaya t'bezhun-masu-pi'nafek  
 Dacryocystitis -- yonshaya t'bezhun-masu-sa'haf  
 Dacryorrhea -- ritsuri-pid-yumaya t'bezhun-masu  
 Dacryopyosis -- ritsuri-nosh t'kuhka svi'bezhun-wadi-torektra  
 Dactyl -- uk  
 Dactyledema -- ritsuri ozh-masu-hoknaya  
 Dactylitis -- uk-yonshaya  
 Dactylology -- ozh-sviribau-tanaf  
 Dactylomegaly -- ritsuri-suk-nosh t'uklar  
 Daffy -- duh-, duhik  
 Dagger -- lipitah  
 Daily -- kanok-gadik  
 Dais -- skaf  
 Damage -- zakar, zakar-tor  
 Damage control -- zakar-tash  
 Damp(en) (v.) -- fish-tor  
 Dampener -- fishek  
 Dampening field -- fish-vunai  
 Damper (device) -- fishek  
 Damping -- fishan  
 Dance -- tam, tam-tor  
 Dancer -- tamsu  
 Dandruff -- (patam-)wadi-grazhiv  
 Danger -- tehvar  
 Dangerous -- tehvar-bosh  
 Dark -- mu'gel-, mu'gelik  
 Dark adaptation -- mu'gel-rubilaya  
 Dark blue -- spo-kur  
 Dark gray -- ras-kur  
 Dark green -- mu'yar-kur  
 Dark matter -- mu'gel-tukh  
 Dark nebula -- mu'gel-stukh-wan  
 Dark reaction -- mu'gel-folaya  
 Darken -- mu'glau  
 Darkness -- mu'gel'es  
 Darling (adj.) -- ashal-, ashalik (beloved); petakov(-) (cute)  
 Darling (person) -- ashal-veh  
 Dart (n.) -- kli  
 Dash(board) -- glutash-dohn  
 Dashpot -- fish-vel  
 Data -- faik  
 Data crystal -- faik-khush  
 Data input access panel -- thro-wein t'faik-svin  
 Data interface -- faik-tvihanek  
 Data network -- faik-vistra  
 Data node -- faik-kal

Data processing -- faik-patoraun  
 Data processor -- faik-patorayek  
 Data retrieval -- faik-zaprahn  
 Data storage -- faik-tsoraya  
 Data storage device -- faik-tsorau-vel  
 Database -- faiktra  
 Database management -- faiktra-khartaya  
 Date (n.) -- kinuf (anc.)  
 Daughter -- ko-fu  
 Daughter cell -- kan-nala  
 Daughter nucleus -- kan-nala-svitan  
 Davit -- vla-aberayek  
 Dawn (n.) -- gad-keshtan  
 Day -- gad  
 Daybreak -- gad-keshtan  
 Daydream -- rirun, rirun-tor  
 Daylight (n.) -- gad-ha'gel  
 Daymare -- gad-eshu'a  
 Daytime (adj.) -- gad-wak-, gad-wakik  
 Dead (adj.) -- tevik  
 Dead, The -- Tevanu  
 Deadly -- teval-, tevalik  
 Deaf -- zhu-fam  
 Deaf, The -- Zhu-famu  
 Deafness -- zhu-fam'es  
 Dear (n.) -- tal-kam  
 Dearth -- fam  
 Death -- tevakh  
 Deathless -- tevakh-fam  
 Deathly -- tevakh-kahk  
 Debark (v.) -- skahal-tor (ship, etc.); snem-tor lap-wadi (tree)  
 Debility -- fam-karik'es(-nosh)  
 Débridement -- skek-nalatra-snem  
 Débris -- guhsh(-tukh)  
 Débris flow -- guhsh-yumaya  
 Debt -- sa'akh (anc.)  
 Decagon -- leh-vla  
 Decahedron -- leh-muk  
 Decalcification -- sahinekaya  
 Decant -- skamukau  
 Decay -- nehau, nehaya  
 Deceit -- tehs  
 Deceive -- tehs-tor  
 Decelerate -- vohrau  
 Deceleration -- vohraya  
 Deception -- tehsat  
 Decide -- klopau  
 Decidua (med., zool.) -- po-tukh  
 Deciduous -- set-mor-, set-morik (botany); saset-, sasetik (med.)  
 Deciduous tooth -- kan-zud, saset-zud  
 Deciduous tree -- set-mor-lap  
 Decimal (adj.) -- leh-, lehkik  
 Decimal system -- neh-leh-torektra

Decision -- klopaya  
 Deck (floor) -- lan-tol  
 Declaration -- afsakaya  
 Declare -- afsakau  
 Decode -- sakiht-tor  
 Decoder (device) -- sakihtek  
 Decollate -- sakrus-zekau  
 Decolorize -- sakurau  
 Decommission -- sakadvin-tor  
 Decompile -- satravilau  
 Decompiler -- satravilayek  
 Decompose -- ek'nehau  
 Decomposition -- ek'nehau  
 Decortication -- kas-wein-snem (bot.); nafek-wein-snem (med.)  
 Decrease -- nelau, nelaya  
 Decrypt -- sasatilau  
 Decryption -- sasatilaya  
 Decryption matrix -- sasatilau-viskulan  
 Deduct -- nenem-tor  
 Deduction -- nenem  
 Deep (adj.) -- glu(-)  
 Deep space -- glu-stukh  
 Deep space imaging system -- glakuvau-torektra t'glu-stukh  
 Defecate -- pekhau  
 Defecation -- pekhaya  
 Defect (n.) -- lafot (anc.)  
 Defective -- lafot-mayik  
 Defend -- fosh-tor  
 Defense -- fosh  
 Deficient -- pafam(-)  
 Deficiency -- pafam'es  
 Define -- mesprah  
 Definition -- mesprahn  
 Deflate -- sasovau  
 Deflation -- sasovaya  
 Deflect -- sakwitau  
 Deflection -- sakwitaya  
 Deflection angle -- sakwitau-vul  
 Deflection coil -- sakwitau-pakuv  
 Deflection yoke -- sakwitau-feretai  
 Deflectometer -- sakwitau-thonek  
 Deflector -- sakwitayek  
 Deflector array -- sakwitayek-zehlaya  
 Deflector field generator -- sakwitayek-vunai-ferek  
 Defoaming agent -- sapuhsh-tukh  
 Deform -- sashidau  
 Deformation -- sashidaya  
 Deformity -- riyeht-shid'es  
 Degeneration -- tehn-storaya  
 Dehiscence -- nei-savas-tu'ashan  
 Dehiscent -- nei-savas-tu'ashik  
 Dehiss circuit -- sashisau-raf-kuv  
 Dehydrate -- nemashau

Dehydration -- nemashaya  
 Delay -- vohtau, vohtaya  
 Delete -- enem-tor  
 Deletion -- enem  
 Deliver -- tefu (anc.)  
 Delivery -- tefuk (anc.)  
 Delta (geol.) -- selk  
 Delta radiation -- kih-saya  
 Delta wing -- reh-vla-rala  
 Deltaic deposit -- selk-titaya  
 Deltoid (adj.) -- reh-vla-shidik  
 Deltan (person/language) -- Deltasu  
 Delusion -- plokh  
 Demand -- haishau, haishaya  
 Demineralization -- sa'ek'tukhaya  
 Demodulate -- sakihtilau  
 Demodulator -- sakihtilayek  
 Demon -- eshu'a (anc.)  
 Demultiplexer -- sawehkantayek  
 Dendriform -- lap-shidik  
 Dendrite (anat.) -- wel-gel  
 Dendrochronology -- lap-kuv-tal  
 Dendrophobia -- lap-ptak  
 Denial -- wafaya  
 Denominator -- ne-su'us  
 Dense -- ihn-, ihnik  
 Densitometer -- ihn-thonek  
 Density -- ihn'es  
 Dent (n.) -- tuhk  
 Dental caries -- zud-nehaya  
 Dental formula -- zud-nik-tok  
 Dentate -- zudlar-rihkik  
 Denticulate -- pi'zudlar-rihkik  
 Dentine -- zud-tukh  
 Dentist -- zud-hassu  
 Dentition -- zudtra  
 Deny -- wafau  
 Deodorant -- savilau-tukh  
 Deodorize -- savilau  
 Deossification -- hinek-ek'tukh-pak  
 Deoxyribonucleic acid (DNA) -- sash t'dah-ha-svitan (SDH)  
 Depart -- trasha  
 Departure -- trashan  
 Departure gate -- trasha-temep  
 Departure time -- trasha-wak  
 Depend -- nerau  
 Dependable -- nerek  
 Dependent -- ner-, nerik  
 Dependent function -- ner-is-kek  
 Dependent variable -- ner-vuhnayek  
 Depilatory (n.) -- isachya-snem-tukh  
 Deplete -- neis-tor  
 Depletion -- neis

Depolarize -- sanarakau  
Deposit -- titau, titaya  
Depression (meteor.) -- neik-shal  
Depressurize -- sahish-tor  
Depth -- gluder  
Depth finder -- gluder-thonek  
Dermabrasion -- wadi-grashaya  
Dermal -- wadi-, wadiyik  
Dermal regenerator -- wadi-vaferek  
Dermatitis -- wadi-yonshaya  
Dermatology -- wadi-tal  
Dermatophyte -- wadi-luk  
Dermis -- tvi-wadi  
Derrick -- aberofek  
Desalination -- sa'alemashaya  
Descend -- tev-tor  
Descent -- tevan  
Describe -- kethelvau  
Description -- kethelvaya  
Desensitize -- sakashovau  
Desert -- eshikh  
Desertification -- eshikh-storaya  
Desiccant -- psethilau-tukh  
Desiccate -- psethilau  
Desiccation -- psethilaya  
Desiccator -- psethilayek  
Designate -- bablivau  
Designation -- bablivaya  
Desire -- aitlun (n.); aitlu (v.)  
Desk -- kitau-skaf  
Desquamation -- wadi-foshuhn  
Destiny -- buk  
Destroy -- vashau  
Destruction -- vashaya  
Destructive -- vashauk  
Detach -- dahl-tor  
Detached retina -- dahlik glan-nalatra-tin  
Detect -- patal-tor  
Detection -- patalan  
Detector -- patalek  
D□tente -- rapahanek  
Deteriorate -- sakluhkau  
Deterioration -- saklukhaya  
Determine -- satalau  
Detonate -- thorshau  
Detonator -- thorshayek  
Detour -- pamutau, pamutaya  
Detoxification -- nehasamaya  
Detoxify -- nehasamau  
Detrimental -- zakaran-, zakaranik  
Detritivore -- ha-guhsh-yokulsu  
Detritus -- ha-guhsh (biol.); thal-tukh (geol.)  
Deuterium -- dah-masu-tukh

Develop -- storau  
 Developed (adj.) -- stor-, storik  
 Developer (device) -- storayek  
 Deviant (adj.) -- teker-, tekerik  
 Deviate -- teker (anc.)  
 Deviation -- tekeret  
 Device -- el'mish  
 Devote -- vaikau  
 Devotion -- vaikaya  
 Devour -- ketau  
 Devout -- vaikar-, vaikarik  
 Dew -- asal-masu  
 Dew point -- asal-masu-sfek  
 Dewdrop -- asal-masu-thek  
 Dewfall -- asal-masu-tevan  
 Diabetes -- ritsuri-nosh t'slor-dau-tukh  
 Diagnose -- nosh-satalau  
 Diagnosis -- nosh-satalaya  
 Diagnostics -- nosh-nisaklar  
 Diagonal -- mes-zehl-, mes-zehlik; (vul-)mes-zehl (math.)  
 Diagram (n.) -- ufesan  
 Dial (n.) -- mik  
 Diameter -- fna-thon  
 Diamond (mineral) -- lerash-khush  
 Diaphoresis -- wadashaya  
 Diaphoretic -- wadashau-aishaik (adj.); wadashau-tukh (n.)  
 Diaphragm (anat.) -- esh-dvunek  
 Diaphysectomy -- wu-hinek-snem  
 Diaphysis -- wu-hinek  
 Diaphysitis -- wu-hinek-yonshaya  
 Diarrhea -- masu-pekh(-nosh)  
 Diary -- gad-dunap  
 Diatom -- masutra-mazhuyik numo-ha-vel  
 Dichroic -- dah-kur-, dah-kurik  
 Dichromatism (med.) -- dah-kur-zhelik glan-fam'es  
 Dictator -- stis-fulagsu  
 Dictionary -- zhit-dunap  
 Die (v.) -- tev-tor  
 Dielectric (n.) -- rispayek  
 Diet (n.) -- yokul-montra (intake); yokul-tashan (controlled eating)  
 Differ -- nati (anc.)  
 Difference(s) -- natyan (anc.)  
 Different -- natya(-) (anc.)  
 Differential (math.) -- natilak  
 Differential diagnosis -- natya-nosh-satalaya  
 Differential calculus -- natilauk pitoh-su'us-ek'tal  
 Differential equation -- natilak-vo'ihn  
 Differential geometry -- natilak-khlop-thonik su'us-ek'tal  
 Differential operator -- natilak-el'torayek  
 Differentiate -- natilau  
 Differentiation -- natilaya  
 Difficult -- rihag-, rihagik  
 Difficulty -- rihag'es

Diffuse (v.) -- sas-tor  
 Diffuser -- sasek  
 Diffusion -- sasak  
 Diffusivity -- sas'es  
 Dig (v.) -- hil-tor  
 Digametic -- dah-guv-nalaik  
 Digest (v.) -- skau-tor  
 Digested, to be -- puskau-tor  
 Digester -- skaunek  
 Digestible -- skau-yehat  
 Digestion -- skaun  
 Digestive gland -- skaun-pi'nafek  
 Digestive tract -- skaun-ek'ur  
 Digger (tool) -- hilek  
 Digit -- uk (anat.); un (math.)  
 Digital clock -- un-wak-vel  
 Digital computer -- saga-tum-vel  
 Digital filter -- saga-kapol  
 Digital recorder -- saga-vipladayek  
 Digital signal -- saga-glantokaya  
 Digital watch -- karik un-wak-vel  
 Digitate -- sau-krusik  
 Digitize -- unsagau  
 Digraph -- dah-zun  
 Digress -- savariben  
 Digression -- savarun  
 Dihedral -- aberala-vul (aero.); dah-pa'ashtra-vul (math.)  
 Dike (n.) -- zul-mev (geol.); pamashok (levee)  
 Dilate -- eiksha  
 Dilation -- eiksharu  
 Dilithium -- dah-pim-tukh  
 Dilithium crystal -- dah-pim-khush  
 Dilithium mining facility -- van-kebitra t'dah-pim-tukh  
 Dilithium reactor -- dah-pim-folayek  
 Dim -- neik-ha'gel-, neik-ha'gelik (adj.); ha'gel-ne-tor (v.)  
 Dimension -- tinga (measurement); retuka (physics)  
 Dimer -- dah-ketek  
 Dimerous -- dah-krusik  
 Dimictic -- dah-da-kuvauk  
 Diminish -- nelau  
 Dimmer (switch) -- ha'gel-neyek  
 Din (n.) -- stiralash  
 Dine (v.) -- aru-yokul  
 Dinghy -- pi'fel-hali  
 Dining room -- shi'yem  
 Dinner -- aru-yem  
 Dinosaur -- fe-vesht-varik terra-vash-ukraluk  
 Diode -- dah-narafek  
 Dioecious -- natya-kasik  
 Dip -- spis, spis-tor  
 Dipeptide -- dah-skaulu  
 Diphasic -- dah-wek-, dah-wekik  
 Diphthong -- dah-ralash-vel



Diphyletic -- dah-zehl-tveshuk  
 Diphyodont -- dah-zud-ekuk  
 Diplegia -- on-shivaya  
 Diplococcus -- dah-dukal-talvot  
 Diploid (n.) -- dah-toltra-nala  
 Diploma -- skunap  
 Diplomacy -- duta'es  
 Diplomat -- dutar (anc.)  
 Diplomatic -- dutar-, dutarik  
 Diplomatic courier vessel -- dutar-shan-hali  
 Diplopia -- dah-glan  
 Dipsomaniac -- ritash-naliveh-aitlusu  
 Dipsophobia -- mon-pthak  
 Dipterous -- dah-rala-, dah-ralaik  
 Direct -- khar-, kharik; khartau  
 Direct action -- khar-torai  
 Direct capacitance -- khar-tsor'es  
 Direct data entry -- khar-faik-svin  
 Direct current (DC) -- wuh-kharat-katrom  
 Direct injection -- khar-vipohshaya  
 Direct lighting -- khar-ha'gelan  
 Direct manipulation -- khar-el'taranaya  
 Direct printing -- khar-hishan  
 Direct sound -- khar-ralash  
 Direct wave -- khar-pral  
 Directed angle -- khart-vulu  
 Direction -- kharat  
 Direction angle -- kharat-vulu  
 Direction finder -- kharat-talek  
 Direction switch -- kharat-dvelek  
 Directional (adj.) -- kharat-, kharatik  
 Directional antenna -- kharat-kash-ral  
 Directional drilling -- kharat-spitaun  
 Directional filter -- kharat-kapol  
 Directional loudspeaker -- kharat-saralashkek  
 Directional microphone -- kharat-viralashkek  
 Directional receiver -- kharat-poprahek  
 Directional relay -- kharat-gol'dvunek  
 Directional transmitter -- kharat-sasayek  
 Director -- khartausu  
 Directory -- khar-feim  
 Dirigible (n.) -- pa-sov-hali  
 Dirt -- kitek  
 Dirty -- kitork(-)  
 Disability -- rikup'es  
 Disable -- rikup-tor  
 Disappear -- sasaudau  
 Disassemble -- saferetau  
 Disassortative mating -- rika-ves-katelaya  
 Disaster -- koshvar  
 Disc -- mathra  
 Discharge -- khrasau, khrasaya  
 Discharger -- khrasayek

Discipline (n.) -- nahr  
 Disconnect (v.) -- satersau  
 Disconnection -- satersaya  
 Discontinuity -- rifator'es  
 Discriminant -- sakathilak  
 Discriminate -- sakathilau  
 Discrimination -- sakathilaya  
 Discriminator -- sakathilayek  
 Disease -- has  
 Disembark -- skahal-tor  
 Disembodied -- savukhut-, savukhutik  
 Disembowel -- sayorkunau  
 Disengage -- dahl-tor  
 Disguise -- pasut, pasutau  
 Disgust -- spa'ash  
 Dishonest -- ritrau  
 Disinfect -- tehn-vivotau  
 Disinfectant -- tehn-vivotau-tukh  
 Disinfection -- tehn-vivotaya  
 Disintegrate -- fezhilau  
 Disintegrator -- fezhilayek  
 Disk -- mathra  
 Disk brakes -- mathra-vohrayeklar  
 Disk camera -- mathra-glayek  
 Disk centrifuge -- mathra-sadan-dahshayek  
 Disk drive -- mathra-yeturek  
 Disk filter -- mathra-kapol  
 Disk pack -- mathra-tuh  
 Disk valve -- mathra-spunek  
 Dislike -- ritishau, ritishaya  
 Dislocation -- sashitaya  
 Dispense -- tan-tor  
 Dispenser -- tanek  
 Dispersal -- saganaya  
 Dispersal barrier -- saganau-foshek  
 Dispersal mechanism -- saganau-tor-vel  
 Disperse -- saganau  
 Dispersed, to be -- pusaganau  
 Disphenoid -- dah-shihvek-vel  
 Displace -- sa'dvun-tor  
 Displacement -- sa'dvun  
 Display -- gluvau, gluvaya; gluvayek  
 Disposable -- sashitau-yehat  
 Disposal -- sashitaya  
 Dispose -- sashitau  
 Disregard (v.) -- bau-tor  
 Disrupt -- feshel-tor  
 Disrupter -- feshelek  
 Disrupter beam -- feshelek-zehl  
 Disrupter induction coil -- feshelek-vimevilau-pakuv  
 Disruption -- feshel  
 Dissect -- dahli-nesh-tor  
 Dissection -- dahli-neshan

Dissolution -- fezhaya  
 Dissolve -- fezhau  
 Dissolved oxygen level -- fezhal-vok t'masu-esh-tukh  
 Dissonance -- mes-stirilaya  
 Distance -- ir  
 Distant -- irak(-)  
 Distill -- (masu-)kan-dahshau  
 Distillation -- (masu-)kan-dahshaya  
 Distortion -- saznek  
 Distract -- saglakolau  
 Distraction -- saglakolaya  
 Distress (n.) -- flakosh  
 Distress beacon -- flakosh-glaribek  
 Distress signal -- flakosh-glantokaya  
 Distribute -- sagan-tor  
 Distribution -- sagan  
 Distribution cable -- sagan-elakh  
 Distribution factor -- sagan-klai  
 Distributor -- saganek  
 District -- kahkrus  
 Disturb -- ertau  
 Disturbance -- ertaya  
 Disymmetric -- dah-talikalik  
 Diurnal (daily, in daytime) -- gad-wak-, gad-wakik  
 Diurnal (active during the day) -- du-gad-, du-gadik  
 Diurnal intensity -- gad-wak-flan'es  
 Diurnal range -- gad-wak-eik'es  
 Diurnal variation -- gad-wak-vuhnaya  
 Dive -- taul, taul-tor  
 Diver -- taulsu  
 Diverge -- satau  
 Divergence -- risteraya (meteor.); sataya (deviate, spread, etc.)  
 Divergent lens -- satau-gelek  
 Divergent sequence -- satau-zehlanaya  
 Divergent series -- satau-weizehl  
 Diversion -- mutaya  
 Divers (adj.) -- vuhnauk  
 Diverse -- natya(-), rikahkwa(-)  
 Diversity -- vuhnaya  
 Divert -- mutau  
 Diverter -- mutayek  
 Divide -- dahsau, dahsaya  
 Divine (adj.) -- ekon-, ekonik  
 Diving bell -- taul-vakh  
 Diving board -- taul-dohn  
 Diving suit -- taul-saikhut  
 Dividend -- vi-dahsau-vel  
 Division -- dahsaya  
 Divisor -- dahsayek  
 Dizygotic twins -- t'dahsular s'natya-yu-murlar  
 Do -- tor  
 Dock -- kif, kifau  
 Docking (n.) -- kifaya

Docking latch -- kifau-kuhr  
 Docking light -- kifau-ha'gel  
 Docking port -- kifau-svep  
 Doctor (n., med.) -- hassu  
 Doctrine -- dvatai  
 Document -- kisev  
 Documentation -- kisevtra  
 Dodecagon -- leh-dah-vla  
 Dodecahedron -- leh-dah-muk  
 Dodge (v.) -- savlau (evade); sayutau (move out of the way)  
 Dolichocephalic -- wu-patam-, wu-patamik  
 Doll -- su-leitri  
 Dolmen -- pashov (anc.)  
 Dolomite -- desh-tukh  
 Dolomitic limestone -- desh-vom-tukh  
 Dolostone -- desh-kov  
 Domain -- grenat  
 Dome (n.) -- ub  
 Domestic (adj.) -- ha'kel-, ha'kelik  
 Domesticate -- ha'kelikau  
 Domestication -- ha'kelikaya  
 Dominance -- abru'es  
 Dominant -- abrupik  
 Dominate -- abrukhau  
 Domination -- abrukhaya  
 Dominator -- abrukhausu  
 Donate -- tan-tor  
 Donation -- tanan  
 Donor -- tansu  
 Door -- svep (anc.)  
 Doorcase -- svep-nentu  
 Doorframe -- svep-nentu  
 Doorjamb -- svep-lehk  
 Doorkeeper -- svep-dvinsu  
 Doorknob -- svep-elat  
 Doormat -- svep-pev  
 Doorpost -- svep-lehk  
 Doorsill -- svep-sku  
 Doorstep -- svep-ashef  
 Doorstop -- svep-klotek  
 Doorway -- svep-sharu  
 Dormancy -- yukup'es  
 Dormant -- yukup-, yukupik  
 Dormant phase -- yukup-wek  
 Dormant volcano -- yukup-zul-kunel  
 Dorsal fin -- pla'dor-ralek  
 Dorsalgia -- pla'dor-kusut  
 Dorsiferous -- pla'dor-leshanik  
 Dorsiflexion -- pla'vulaya  
 Dorsigrade -- fi-pla'uk-latesik  
 Dose (n.) -- fim  
 Dosimeter -- fim-thonek  
 Dosimetry -- fim-thon

Double (v.) -- dahtau  
 Double agent -- dah-zamasu  
 Double bond -- dah-tel  
 Double cone -- dah-ikun  
 Double door -- dah-svep  
 Double entry -- dah-svin  
 Double exponential distribution -- dah-ashenek-sagan  
 Double exponential integration -- dah-ashenek-ketilaya  
 Double exposure -- dah-sashavaya  
 Double floor -- dah-lan-tol  
 Double helix -- dah-kulan  
 Double hull -- dah-vukh  
 Double integral -- dah-ketil  
 Double series -- dah-weizehl  
 Double vision -- dah-glan  
 Double wall -- dah-temok  
 Doubt -- vet, vet-tor  
 Doubtful -- vet-bosh  
 Dough -- ned  
 Down(ward) -- ne'le  
 Downwind -- ne'salanik  
 Draft (n.) -- fnalan (air); ne-haf (under a ship)  
 Drag (v.) -- zashesau  
 Drain -- smashaya (loss); smash-mev (pipe); smashau (v.)  
 Drainage -- smashaya  
 Drapes (n.) -- skahanu  
 Draw (v.) -- bes-tor  
 Drawer (desk, etc.) -- zish-nef  
 Drawing -- bes  
 Dream -- run, run-tor  
 Drier (device) -- psethayek  
 Drift -- marau, maraya  
 Drill -- spitau; spitayek  
 Drill bit -- spitau-zus  
 Drill chuck -- (spitau-)zus-meskarayek  
 Drill press -- spitau-el'lamok  
 Drink -- mon, mon-tor  
 Drinkable -- mon-yehat  
 Drip -- thezh, thezh-tor  
 Drip-proof -- thezh-teht  
 Drive (n.) -- yeturat (motivation, need, urge); yeturek (mech.)  
 Drive (v.) -- yetur (anc.)  
 Drive section -- yeturek-krus  
 Drive shaft -- yetur-fek  
 Driveline, Drivetrain -- yetur-ek'zehl  
 Driver -- yetursu (person); yeturak (software); mahyeturek (machine)  
 Driver coil -- yetur-pakuv  
 Driveway -- awek-thro-yut  
 Drizzle -- pi'sov-masu; pi'sov-mashau  
 Drogue parachute -- seshau-tev-sai  
 Drone (aero.) -- risu-sov-hali  
 Drop (n.) -- set (fall); nes (lowering); thek (rain, tear, etc.)  
 Drop (v.) -- set-tor (to let fall); ne-tor (to lower)

Drop arm (mech.) -- set-kar  
 Drop cloth -- thek-sai  
 Drop hammer -- set-mah-vel  
 Drop point -- set-sfek  
 Drop tank -- set-tuhlek  
 Drop valve -- set-spunek  
 Droplet -- pi'thek  
 Droplight -- geldau-ha'gelek  
 Dropsonde -- set-sov-nisayek  
 Dropsy -- ritsuri-masu-hoknaya  
 Drosometer -- asal-masu-thonek  
 Dross -- mopuhsh  
 Drought -- pseth-wak-krus  
 Drown -- mastevau  
 Drug (n.) -- ta'bek (anc.)  
 Drug resistance -- ta'bek-tehnaya  
 Drum -- vluhn, vluhn-tor  
 Drumbeat -- vluhn-kuhsh  
 Drupe -- kahm-savas  
 Drupelet -- pi'kahm-savas  
 Dry -- pseth, psethau  
 Dry cell battery -- pseth-nala-kipof  
 Dry dock -- smash-hali-kif  
 Dry ice -- le-suma s'dah-eshu t'nol-tukh  
 Dry measure -- pseth-thon  
 Dry rot -- pseth-nehaya  
 Dry season -- pseth-tevun-yonuk  
 Dry steam -- pseth-zhis  
 Dry valley -- pseth-pilashik ku-li  
 Dry weight -- herbosh-rasath  
 Duality -- dah'es  
 Dub (v.) -- abevipladau  
 Dubious -- vet-bosh  
 Dubnium -- leh-wuh-tukh  
 Duct (n.) -- mev  
 Ducting -- mevtra  
 Duel (n.) -- pagun (anc.)  
 Duet (n.) -- dah-mavaya  
 Dull (adj.) -- guhf-, guhfik (boring); pas-, pasik (not sharp)  
 Dune -- sef  
 Duo -- dahek  
 Duodecimal (adj.) -- leh-dah-, leh-dahik  
 Duonetic coupler -- dah-fel-teretek  
 Duplex (adj.) -- on-kharat-, on-kharatik  
 Duplicate -- va'asau, va'asaya  
 Dust -- grazhiv  
 Dust storm -- grazhiv-sahriv  
 Dustcover -- grazhiv-wein  
 Dustpan -- fnash-sunil  
 Duty -- gu-vam (anc.)  
 Dwarf (n.) -- kobsu  
 Dwelling -- kelek  
 Dyad -- zun-shif

Dye -- kur-tor, kur-tukh  
 Dynamic (adj.) -- toranu-, toranik  
 Dynamo -- toranelek  
 Dynamometer -- smish-thonek  
 Dysentery -- rasah-masu-pekh  
 Dysfunction -- ritsuri-is-lof  
 Dysgraphia -- ritsuri-kitau-nosh  
 Dyskinesia -- ritsuri-dvun-nosh  
 Dyslexia -- ritsuri-telv-nosh  
 Dyslogia -- ritsuri-nahp-nosh  
 Dyson sphere -- ek'kal t'Daison  
 Dysosmia -- ritsuri-fnish-nosh  
 Dyspepsia -- ritsuri-skaun-nosh  
 Dysphagia -- ritsuri-vinem-nosh  
 Dysphasia -- ritsuri-stariben-nosh  
 Dysphonia -- ritsuri-spes-nosh  
 Dyspnea -- ritsuri-esh-nosh  
 Dysprosium -- khreit-tukh  
 Dystrophy -- nalatra-tehn-storaya  
 Dysuria -- ritsuri-vazh-nosh

Each -- tik  
 Eager -- nayik  
 Ear -- kaluk  
 Earache -- kaluk-kusut  
 Eardrum -- zhu-nalatra-tin  
 Early -- ten-mal  
 Earn -- pinkau  
 Earnings -- pinkaunu  
 Earphone -- kaluk-ralashek  
 Earpiece -- kaluk-vel  
 Earring -- kaluk-mokuv  
 Earth -- Terra (planet); solektra (ground)  
 Earth colors -- solek-kureklar  
 Earth current -- solektra-katrom  
 Earth sciences -- ek'tra-ek'tallar  
 Earthborn -- fi'Terra-pukeshtaik  
 Earthbound -- fi'Terra-telanik  
 Earthling (n.) -- Terrasu  
 Earthly -- terrupik  
 Earthquake -- solektra-hutaya  
 Earthquake intensity -- solektra-hutau-flan'es  
 Earthquake magnitude -- solektra-hutau-pul'es  
 Easement -- krotchilaya  
 East -- she'rak  
 Eastern -- she'rak-, she'rakik  
 Eastward(s) -- na'she'rak  
 Easy -- hag-, hagik  
 Eat -- yokul  
 Eatable -- yokul-yehat  
 Eatery -- yokul-mahr-kel  
 Eave(s) -- kamu-mesyel(lar)  
 Ebb tide -- ne'le-mashen

Ebullator -- masu-esta-falekek  
 Ebuliometer -- kan-sfek-thonek  
 Ebullition -- kanan  
 Eccentric (adj.) -- risvitan-, risvitanik  
 Eccentric angle -- risvitan-vulu  
 Eccentric load -- risvitan-tus  
 Eccentricity -- risvitan'es  
 Ecdemic (zool.) -- akan(-)  
 Echelon -- vus  
 Echo (n.) -- vava  
 Eclipse (n.) -- ek'duv  
 Ecology -- malat-tal  
 Economist -- iskan-talsu  
 Economize -- yeht-korsau  
 Economy -- yeht-iskan'es (efficient use); iskan (system)  
 Ecophysiology -- (malat-)ek'shalik is-lof-tal  
 Ecospecies -- shal□ne-koshtri  
 Ecosphere -- ha-ek'shal  
 Ecosystem -- ha-ek'torektra  
 Ecotone -- prah-shal  
 Ecotype -- shal-ha-ves  
 Ecru (color) -- ha'mazhiv-kur  
 Ecstasy -- prahk'es  
 Ecstatic -- prahk-, prahkik  
 Ectoderm -- si-nalatra  
 Ectogenesis -- si-vukhut-storaya  
 Ectoparasite -- skonn-neshuhk  
 Ectophloedal -- fi-lap-wadiyik  
 Ectopia cordis -- ritsuri-shitik khaf-spol  
 Ectopic pregnancy -- ri-sudef-k'kan'es  
 Ectotherm (zool.) -- si-falek-aushfa  
 Eddy (n.) -- pi'tehn-katrom (counter-current), pi'tchef (whirlpool)  
 Eddy current -- tehn-katrom  
 Edema -- ritsuri-masu-hoknaya  
 Edentate, Edentulous (adj.) -- zud-fam-, zud-famik  
 Edible -- yokul-yehat  
 Edge -- rihk; rihkau  
 Edge effect -- rihk-daya  
 Edge tool -- rihk-raul  
 Edging -- rihkaya  
 Edit -- ver-tor  
 Edition -- yadan  
 Editor -- versu  
 Effect -- daya  
 Effective -- dau-bosh  
 Effectiveness -- dau-bosh'es  
 Efferent -- salesh-, saleshik  
 Efficiency -- yeht-urgam'es  
 Efficiency rating -- yeht-urgam'es-tavan  
 Efficiency ratio -- yeht-urgam'es-tavat  
 Efficient -- yeht-urgam(-)  
 Effluent -- sayumuk  
 Effort -- urgam



Egg -- yu-mur  
 Eggbeater -- yu-mur-rishek  
 Eggshell -- yu-mur-fo  
 Ego -- shayuf  
 Egocentric -- shai-svitan-, shai-svitanik  
 Egocentrism -- shai-svitan'es  
 Egomania -- ek'shai-svitan'es  
 Egotism -- ritsuri-shai'es  
 Egress -- ruken, ruk-tor  
 Eidetic -- zat-glak-, zat-glakik  
 Einsteinium -- kau-tukh  
 Ejaculate -- khrasau  
 Ejaculation -- khrasaya  
 Ejaculatory duct -- khrasau-mev  
 Eject -- sadakh (anc.)  
 Ejecta (geol.) -- sadakh-tukh  
 Ejection -- sadakhat  
 Ejection seat -- sadakh-ku-san  
 Ejector -- dakh-vel, sadakhek  
 Ektrodachtylia -- kesh-fam-uk  
 □lan -- buhl'es  
 Elapse -- veshau, veshaya  
 Elapsed time -- veshal-wak  
 Elbow -- kar-nef  
 Elderly (adj.) -- shakhupik  
 Elderly, The (n.) -- Shakhu  
 Elect -- todvel-tor  
 Election -- todvelan  
 Elector -- todvelsu  
 Electric -- raf-, rafik  
 Electric bell -- raf-kus-vakh  
 Electric burn -- raf-yontaya  
 Electric eye -- raf-glaiyek  
 Electric flux -- raf-gasu  
 Electric light -- raf-ha'gelek  
 Electric motor -- raf-mishu  
 Electric propulsion -- raf-dataya  
 Electric shock -- raf-kolaya  
 Electrical conductivity -- raf-spa'es  
 Electrical discharge -- raf-khrasaya  
 Electrical engineering -- raf-mish-tal  
 Electrical power distribution -- raf-tepul-sagan  
 Electrical storm -- igen-wesh-sahriv  
 Electrician -- raf-tor-velsu  
 Electricity -- raf-tepul  
 Electrification -- rafaya  
 Electrify -- rafau  
 Electrochemistry -- raf-meil-tal  
 Electrocute -- rafostau  
 Electrocutation -- rafostaya  
 Electrocyte -- raf-nala  
 Electrode -- narafek  
 Electrodynamic fluid -- raf-toranu-masu

Elektrokinetics -- raf-dvun-tal  
 Electrolysis -- raf-nifaya  
 Electrolyte -- falun-krus-tukh, falun-krus-masu  
 Electrolyze -- raf-nifau  
 Electromagnet -- raf-seshan-vel  
 Electromagnetic brake -- raf-seshan-vohrayek  
 Electromagnetic field (EMF) -- raf-seshan-vunai  
 Electromagnetic generator -- raf-seshan-ferek  
 Electromagnetic induction -- raf-seshan-vimevilaya  
 Electromagnetic pulse (EMP) -- raf-seshan-sagaya  
 Electromagnetic radiation -- raf-seshan-saya  
 Electromagnetic switch -- raf-seshan-dvelek  
 Electromagnetic unit -- raf-seshan-kebi  
 Electromagnetic wave -- raf-seshan-pral  
 Electrometer -- raf-natya-thonek  
 Electromotive force -- raf-dvun-nekwitaya  
 Electron -- u'gal  
 Electron beam -- u'gal-ha'zehl  
 Electron gun -- u'gal-pohshek  
 Electron mass -- u'gal-shivak  
 Electron microscope -- u'galik numo-zan-vel  
 Electron pair -- u'gal-shif  
 Electron resonance scanner -- u'gal-kusilau-glashayek  
 Electron scanning -- u'gal-glashaun  
 Electron shell -- u'gal-fo  
 Electron stream -- u'gal-salash  
 Electronegative -- raf-u'rak(-)  
 Electronic -- raf-ar'kada-, raf-ar'kadaik  
 Electronic control -- raf-ar'kada-tash  
 Electronic countermeasures (ECM) -- raf-ar'kada-tehnokatlar  
 Electronic flash -- raf-ar'kada-kahat  
 Electronic ignition -- raf-ar'kada-yonan  
 Electronic mail (email) -- raf-ar'kada-sakat  
 Electronic microphone -- raf-ar'kada-viralashek  
 Electronic shutter (camera) -- raf-ar'kada-ha'wein  
 Electronic switch -- raf-ar'kada-dvelek  
 Electronic tuning -- raf-ar'kada-tvelkaun  
 Electronics -- u'gal-yumau-tal (study); raf-ar'kada-vellar (equipment)  
 Electronics bay -- raf-ar'kada-sutauk  
 Electroplating -- raf-slaun  
 Electropositive -- raf-a'rak(-)  
 Electrostatic -- shi-raf-, shi-rafik  
 Electrostatic charge -- shi-raf-falun  
 Electrostatic field -- shi-raf-vunai  
 Electrostatic generator -- shi-raf-ferek  
 Electrostatic induction -- shi-raf-vimevilaya  
 Electrostatic microphone -- shi-raf-viralashek  
 Electrostatic shield -- shi-rafik fo-dan  
 Electrostatics -- shi-raf-tal  
 Electrothermal -- raf-falek-, raf-falekik  
 Elegance -- soh'kes  
 Elegant -- soh'k-, soh'kik  
 Elegy -- v'hak (anc.)

Element -- meilak (chem.); velak (math.)  
 Elemental analysis -- meilak-nisaya  
 Elementary -- nen-, nenik  
 Elementary function -- nen-kek  
 Elementary number -- nen-su'us  
 Elementary operation -- nen-el'toraya  
 Elementary particle -- nen-pi'gal  
 Elevate -- ashenau  
 Elevation -- ashenaya (raising); (sov-)pidek (altitude)  
 Elevator -- sa'adek (lift); ashenayek (aero., anat.)  
 Eleven -- leh-wuh  
 Elevon -- ashen-padukau-rala  
 Eliminate -- snem-tor  
 Elimination -- snem (removal); vazh-snem (urine); pekh-snem (feces)  
 Elite -- Snapidu (n.); snapid-, snapidik (adj.)  
 Elitism -- snapid'es  
 Elixir -- glozho (anc.)  
 Ellipse -- yuv  
 Ellipsoid -- yuvan  
 Ellipsoidal calculus -- yuvanik pitoh-su'us-ek'tal  
 Ellipsoidal coordinate -- yuv-shi-kethel  
 Elliptic(al) -- yuv-, yuvik  
 Elliptic cone -- yuv-ikun  
 Elliptic curve -- yuv-tsa  
 Elliptic function -- yuv-kek  
 Elliptic integral -- yuv-ketil  
 Elliptic logarithm -- yuv-talashenek  
 Elliptic trammel -- yuv-bes-raul  
 Ellipticity -- yuvik'es  
 Elongate -- wuvau  
 Elongated -- wuvauk  
 Elongation -- wuvaya  
 Elsewhere -- kitok-wilat  
 Elude (v.) -- savlau (evade); stron-tor (escape)  
 Elutriate -- pu-dahshau  
 Elutriation -- pu-dahshaya  
 Eluvium -- skrash-tukh  
 Emanicipate -- su'el-tor  
 Emanicipation -- su'elan  
 Embankment -- vulosoltra  
 Embark -- fihal-tor  
 Embed -- vishitau  
 Ember -- kilyon  
 Embolectomy -- snem t'el-klotau-vel  
 Embolism (med.) -- mev-klotaya  
 Embolus -- el-klotau-vel  
 Embrace -- nartau, nartaya  
 Embroidery -- og-tanaf  
 Embryo -- ten-kan-bu (TGV), pi'tenkan (MGV)  
 Embryogenesis -- pi'tenkan-storaya  
 Embryology -- pi'tenkan-tal  
 Embryonic, Embryotic -- pi'tenkan-, pi'tenkanik  
 Emerald (n.) -- yar-khush

Emerge -- sasarlah  
 Emergency -- kef-, kefik; kef-yet  
 Emergency anti-grav thruster -- kefik tehn-sesh-kwitek  
 Emergency battery -- kef-kipof  
 Emergency bridge -- kvath-tash-svitan  
 Emergency containment grid -- kef-tuhlau-vis  
 Emergency flush intake -- prah-vel t'kef-kluhvaya  
 Emergency flush vent -- kef-kluhvau-krau  
 Emergency generator -- kef-ferek  
 Emergency hatch -- kef-thro-svep  
 Emergency landing leg -- kef-fisolekau-mal  
 Emergency medical hologram (EMH) -- kefik has-reh-bikuvsu  
 Emergency life support -- kef-ha'kiv-nenikaya  
 Emergency survival compartment -- kef-rishan-tsorayek  
 Emergency switch -- kef-dvelek  
 Emergency transporter -- kef-ifisek  
 Emesia -- pluhkan  
 Emetic (n.) -- plukh-tukh  
 Emission -- saya  
 Emit -- sau  
 Emitter -- sayek  
 Emitter array -- sau-zehlaya  
 Emollient -- wadi-mosek  
 Emotion(s) -- zherka  
 Emotional -- zherka-bosh  
 Emotionless -- zherka-fam  
 Empathic -- rigolauk  
 Empathy -- rigolaya  
 Empennage -- sov-hali-harrtra  
 Emperor -- sa-eik-te'krusu  
 Empire -- eik-te'kru  
 Empower -- totepulau  
 Empress -- ko-eik-te'krusu  
 Empty (adj.) -- herbosh  
 Emphyema -- pi'tauk-kuhka-hoknaya  
 Emulsible -- dah-mashauk  
 Emulsifier -- dah-mashek  
 Emulsion -- dah-masu  
 Encapsulate -- pahafolau  
 Encase -- patuhl-tor  
 Encephalitis -- shad-yonshaya  
 Encephalocele -- shad-faka  
 Encephalon -- shad  
 Encephalopathy -- shad-has  
 Enchain -- panaflakhau  
 Encircle -- vikuvau  
 Encirclement -- vikuvaya  
 Enclose -- vi'ikap-tor  
 Encode -- vikiht-tor  
 Encoder -- vikihtek  
 Encounter -- snagel, snagel-tor  
 Encounter group -- snagel-travek  
 Encourage -- kastorau

Encouragement -- kastoraya  
 Encroach -- visnuhpau  
 Encroachment -- visnuhpaya  
 Encrust -- papuhnkau  
 Encrustation -- papuhnkaya  
 Encrypt -- visatilau  
 Encryption -- visatilaya  
 Encryption matrix -- visatilau-viskulan  
 Encyclopedia -- danau-dunap  
 End -- shaht, shahtau  
 Endanger -- vitechvar-tor  
 Endarteritis -- yonshaya t'uzh-khaf-mev  
 Endeavor (n.) -- nakarat (anc.)  
 Endemic -- la'tveshulauk  
 Ending (n.) -- shahtan  
 Endless -- shaht-fam  
 Endobiotic -- tvi-hatik  
 Endocarditis -- yonshaya t'tvi-tin t'khaf-spol  
 Endocardium -- tvi-tin t'khaf-spol  
 Endocrine gland -- tvi-sau-pi'nafek  
 Endocrine system -- tvi-sau-torekra  
 Endocrinology -- tvi-sau-tal  
 Endolithic -- tvi-kov-hatik  
 Endolymph -- tvi-kaluk-masu  
 Endometriosis -- risudef-tvitaya-nosh  
 Endometritis -- sudef-tvitaya-yonshaya  
 Endometrium -- sudef-tvitaya  
 Endoparasite -- tvi-neshuhk  
 Endophyte -- tvi-kas-kastik  
 Endoplasm -- tvi-tukh  
 Endorphins -- kusut-nemik tvi-shad-keteklar  
 Endoscope -- tvi-zan-vel  
 Endoscopy -- tvi-zanan  
 Endoskeleton -- (tvi-)hinek-teraya  
 Endosperm -- nei-yem-nalatra  
 Endosteum -- tvi-hinek-tvitaya  
 Endothelium -- tvi-skonn-nalatra  
 Endotherm (zool.) -- tvi-falek-aushfa  
 Endotoxin -- tvi-hasam  
 Endozoic -- tvi-aushfa-, tvi-aushfaik  
 Endpoint (math.) -- shaht-sfek  
 Endurance -- palesh  
 Endure -- palesh-tor  
 Enema -- pekh-razh-pun  
 Enemy -- nemut (anc.)  
 Energize -- tepulau  
 Energy -- tepul  
 Energy balance -- tepul-vo'ektaya  
 Energy barrier -- tepul-foshek  
 Energy field -- tepul-vunai  
 Energy focusing matrix -- tepul-thakau-viskulan  
 Energy gain -- tepul-nazh  
 Energy level -- tepul-vok

Energy loss -- tepul-pak  
 Energy management -- tepul-khartaun  
 Energy transfer -- tepul-shan  
 Enforce -- togolau  
 Enforcement -- togolaya  
 Enforcer -- togolausu  
 Engine -- mishu  
 Engineer -- mishek  
 Engineering -- mish-tal (field); mish-shal (spaces)  
 English (language) -- eingelsu  
 Engrave -- thes-tor  
 Engraver -- thessu  
 Engraving -- thes  
 Engulf -- shonau  
 Enlarge -- sukau  
 Enlargement -- sukaya  
 Enlarger -- sukayek  
 Enigma -- del-ri (anc.)  
 Enjoy -- tizh-tor  
 Enjoyment -- tizh'es  
 Enormous -- masuk'  
 Enough -- hiyet (anc.)  
 Enrich -- tvidon-tor  
 Enrichment -- tvidon'es  
 Ensiform -- shek-mor-shidik  
 Ensign -- wuh-lan (naval rank); (seht-)haifan (flag)  
 Enter -- svi-tor  
 Enteritis -- pekh-mev-yonshaya  
 Enthusiasm -- buhl'es  
 Enthusiastic -- buhl-, buhlik  
 Entomophobia -- ravot-pthak  
 Entry -- svin  
 Enucleation -- ek'krus-snem  
 Enuresis -- ritash-vazhaya  
 Environment -- ek'sitra  
 Environmental control -- ek'sitra-tash  
 Environmental systems monitor -- glantayek t'ek'sitra-torektralar  
 ENZOOTIC -- la'tveshulauk  
 Enzyme -- zalu  
 Eolian -- salan-, salanik  
 Ephemeral (adj.) -- mapen-palesh-, mapen-paleshik  
 Ephemerophyte -- sahr-kastik  
 Epibiotic -- fi-hatik  
 Epicranium -- patam-wadi-tin(lar)  
 Epidemic -- shal-has-sak  
 Epidemiology -- has-sak-tal  
 Epidermis -- si-wadi  
 Epididymis -- pi'sa-nei-mev  
 Epigeal -- solektra-skonn-hatik  
 Epiglottis -- vinem-pi'rala  
 Epilation -- isach-gir-snem  
 Epilepsy -- skichra (anc.)  
 Epilimnion -- abru-masu-tin t'suk'muzh

Epipellic -- fi-vrel-hatik  
 Epiphyte -- fi-vath-kastik  
 Epiphytotic -- kas-shal-has  
 Episcleritis -- bezhun-wan-yonshaya  
 Epistaxis -- han-khafaya  
 Epitaxial -- tin-khush-to'ovauk  
 Epitaxy -- tin-khush-to'ovaya  
 Epithelial cell -- wein-nala  
 Epithelial tissue -- wein-nalatra  
 Epithelium -- wein-nala-tin  
 Epixylous -- fi-lapan-to'ovauk  
 Epizoic -- fi-aushfa-to'ovauk  
 Epizoon -- aushfa-wadi-hatik aushfa  
 Epoch -- nauf  
 EPS conduit -- raf-snazh-mev  
 EPS regulator -- raf-snazh-pakhartayek  
 EPS relay -- raf-snazh-gol'dvunek  
 EPS system -- raf-snazh-torektra  
 Equal (adj.) -- ka; ka-, kaik  
 Equal-area projection -- ka-shal-salehm  
 Equality -- ka'es  
 Equation -- vo'ihn  
 Equator -- dahs-da-kuv  
 Equidistant -- ka-ir-, ka-irik  
 Equilateral arch -- ka-reh-kesek  
 Equilateral hyperbola -- ka-pidvalu  
 Equilateral polygon -- ka-wehk-vla  
 Equilateral roof -- ka-reh-kamu  
 Equilateral triangle -- ka-reh-vla  
 Equilibrium -- vo'ektilahr  
 Equilibrium constant -- vo'ektilahr-ek'kat  
 Equilibrium point -- vo'ektilahr-sfek  
 Equinox -- ka-gad  
 Equip (v.) -- tanovau  
 Equipment -- tanovau-tukh (gear); mishitra (machinery)  
 Equipped, to be -- putanovau  
 Equivalence -- ka-tala'es  
 Equivalent -- ka-tala-, ka-talupik  
 Era -- nuhs  
 Erase -- snishau  
 Eraser -- snishayek  
 Erasure -- snishaya  
 Erbium -- bal-tukh  
 Erbium laser -- bal-tukh-ha'zehlek  
 Erect (v.) -- abru-tor  
 Erectile tissue -- abru-nalatra  
 Erection -- abrun  
 Erector (anat.) -- abrun-dvunek  
 Ergometer -- dvunek-thonek  
 Ergonomics (study) -- zup-dvun-tal  
 Ergophobia -- ar'kada-pthak, zup-pthak  
 Ergot -- yartik-luk  
 Ergotism -- has-mar s'yartik-luk

Erode -- skrashau  
 Erogenous -- guv-kastorilau-, guv-kastorilauk  
 Erosion -- skrashaya  
 Erosive -- skrashauk  
 Erotic -- guv-dau-, guv-dauk  
 Err -- laf-tor  
 Errand -- skrol  
 Erratics (geol.) -- hafau-kov-tukh s'dvun-le-sumatra  
 Erroneous -- laf-bosh  
 Error -- lafosh (anc.)  
 Error code -- laf-kiht  
 Error message -- laf-skladan  
 Error signal -- laf-glantokaya  
 Erucic acid -- blavla-sash  
 Eruct -- skaun-sa'haf-sovau  
 Eructation -- skaun-sa'haf-sovaya  
 Erumpent -- sathorauk  
 Erupt -- sposh-tor  
 Eruption -- sposhan  
 Erythema -- wadi-yon'es s'pi'haf-mev-eikan  
 Erythrisms -- mayon-kurau-nosh  
 Erythroblast -- khaf-orfik-nala  
 Erythrocyte -- yon-khaf-nala  
 Erythroderma -- wadi-yon'es-nosh  
 Erythropoiesis -- torvaya t'yon-khaf-nalalar  
 Escalate -- sa'ovau (expand); abulau (increase)  
 Escalator -- shenek  
 Escapable -- stron-yehat  
 Escape -- stron, stron-tor  
 Escape hatch -- stron-thro-svep  
 Escape velocity -- stron-threshan  
 Escapee -- stronsu  
 Escapology -- stron-tanaf  
 Eschar (med.) -- yontaya-net  
 Esophagus -- yokul-mev  
 Esoteric -- grei-faitik  
 Esotropia -- vi'le-da-nosh t'bezhun(lar)  
 Especially -- wa, wa'  
 Essential -- bolaya-, bolayatik  
 Essential element -- bolaya-meilak  
 Essential oil -- bolaya-elmin  
 Establish -- afer-tor  
 Esteem -- vam  
 Ester -- vilash  
 Esterase -- vilash-zalu  
 Estimate -- talupau, talupaya  
 Estrogen -- ko-dau-tukh  
 Estuary -- masutra-riflash  
 Etch (v.) -- sash-thes-tor  
 Eternal -- ek'wak-, ek'wakik  
 Eternity -- ek'wak'es  
 Ethane -- sampa-tukh  
 Ethereal -- ri-ek'tra-, ri-ek'traik



Ethical -- tomayeht-, tomayehtik  
 Ethnicity -- ne-koshtri'es  
 Ethnocentric -- ne-koshtri-svitanik  
 Ethnology -- ne-koshtri-tal  
 Ethyl -- nena-tukh  
 Ethylene -- nepa-tukh  
 Etiolation -- mu'gel-to'ovaya  
 Etiology -- aishan-tal  
 Etiquette -- yeht-shila-kloshai  
 Etymology -- zhit-vesht-tal  
 Eugenicist -- tash-noshtra-talsu  
 Eugenics -- tash-noshtra-tal  
 Euhaline -- krus-alem-masupik  
 Eukaryote -- svitan-ha-gel  
 Eulittoral zone -- gan-gef-shal  
 Eulogize -- kroliben  
 Eulogy -- krolun  
 Eunuch -- risakallarsu  
 Eupeptic -- rom-skaunik  
 Euphonious -- rom-ralashik  
 Euphoria -- muhl-olau'es  
 Euphoriant -- muhl-olau-ta'bek  
 Euphoric -- muhl-olauk  
 Euphotic zone -- masu-ha'gel-shal  
 Eupnea -- tsuri-pa'kizh  
 Europium -- shanai-tukh  
 Eurybathic -- fan-lanet-kupik  
 Euryecious -- eik-shal-hatik  
 Euryhaline -- eik-alem'es-kupik  
 Euryoxic -- ek'esh-tukh-kupik  
 Euryphagic -- eik-yokulik  
 Eurythermal -- eik-falek'es-kupik  
 Eurytopic -- eik-nosh-wivelauk  
 Eustachian tube -- kaluk-mev  
 Euthanasia -- rom-staya  
 Euthanize -- rom-stau  
 Euthenics -- muhl-olau-tal  
 Eutrophic -- don-katik  
 Evacuate -- sashalotau  
 Evacuation -- sashalotaya  
 Evade -- savlau  
 Evanescence -- rikwon'es  
 Evanescent -- rikwon-, rikwonik  
 Evaporate -- na-sovau  
 Evaporation -- na-sovaya  
 Evaporator -- na-sovayek  
 Evaporimeter -- na-sovau-thonek  
 Evaporite -- na-sovau-kov  
 Evasion -- savlaya  
 Evection -- yelaikaya  
 Even (adj.) -- kauk (level); viyi-, viyik (not odd)  
 Even (adv.) -- ruhm  
 Even function -- viyi-is-kek

Even number -- viyi-su'us  
 Evening -- khru  
 Event -- pavek  
 Event horizon (astron.) -- pash-yel-krup  
 Eventful -- pavek-bosh  
 Eventual -- poshaht-, poshahtik  
 Evergreen (adj.) -- kwon-mor-, kwon-morik  
 Evergreen (n.) -- kwon-mor-kastik (plant), kwon-mor-lap (tree)  
 Evergreen forest -- kwon-mor-laptra  
 Every -- kanok  
 Everybody -- kanok-veh  
 Everyone -- kanok-veh  
 Everyplace -- kanok-wilat  
 Everything -- kanok-vel  
 Everywhere -- kanok-wilat  
 Evict -- sakelekau  
 Eviction -- sakelekaya  
 Evil -- ek'rasahkos (adj.); ek'rasah (n.)  
 Eviscerate -- sayorkunau  
 Evolution -- wakrubaya  
 Evolutionary lineage -- wakrubau-zehl'es  
 Evolutionary rate -- wakrubau-tav  
 Evolutionary trend -- wakrubau-venek  
 Evolve -- wakrubau  
 Evulsion -- saseshaya  
 Exact (adj.) -- faika-, faikaik  
 Exact differential -- faika-natilak  
 Exact equation -- faika-vo'ihn  
 Exact science -- talkup-ek'tal  
 Examination -- linisaya  
 Examine -- linisau  
 Example -- li-fal (anc.)  
 Excavate -- razhil-tor  
 Excavation -- razhilan  
 Excavator (device) -- razhilek  
 Exceed -- namautau  
 Exceeding (adj.) -- namautauk  
 Excel -- marom-tor  
 Excellence -- marom'es  
 Excellent -- marom(-)  
 Exception -- kulauf  
 Exercise (n.) -- tusok  
 Excess -- mau-tan  
 Excessive -- mauyik  
 Excellent -- ohrom  
 Exchange -- di'kizh, di'kizh-tor  
 Exchange force -- di'kizh-nekwitaya  
 Exchange matrix -- di'kizh-viskulan  
 Exchange rate -- di'kizh-tav  
 Excise (v.) -- snesh-tor  
 Excision -- snesh  
 Excitable -- tepor-yehat  
 Excite -- teporilau

Excitement -- tepor'es  
 Exciter (elect.) -- teporek  
 Exciting -- teporilauk  
 Exciton -- razh-u'gal-shif  
 Exclaim -- sporiben  
 Exclamation -- sporun  
 Exclave -- dahs-krus  
 Exclude -- sanan-tor  
 Exclusion -- sanan  
 Exclusion principle -- sanan-dvatai  
 Exclusive -- sananik  
 Exclusivity -- sanan'es  
 Excrement -- pekh  
 Excrete -- sasnem-tor  
 Excretion -- sasnem  
 Excuse -- tobeg, tobeg-tor  
 Execute -- fitor (carry out); tostau (put to death)  
 Execution -- fitoran (carrying out); tostaya (death)  
 Executioner -- tostausu  
 Executive (n.) -- fitartausu  
 Executor, Executrix -- fitorsu  
 Exert -- pidesh (anc.)  
 Exertion -- pideshan  
 Exfoliate -- wadi-foshuhl  
 Exfoliation -- wadi-foshuhn  
 Exhalation -- sa'le-eshan  
 Exhale -- sa'le-esh-tor  
 Exhaust (n.) -- saguhsh  
 Exhaust fan -- saguhsh-sovek  
 Exhaust gas -- saguhsh-pa-tukh  
 Exhaust manifold -- saguhsh-wehk-vel  
 Exhaust pipe -- saguhsh-mev  
 Exhaust port -- saguhsh-tersvep  
 Exhibit -- gluvau, gluvaya  
 Exile -- sashasolau, sashasolaya; sashasolausu  
 Exist -- nam-tor  
 Existence -- nam  
 Existent -- inam-, inamik  
 Exit -- ruken, ruk-tor  
 Exobiologist -- s'udish-ha-talsu  
 Exobiology -- s'udish-ha-tal  
 Exocrine gland -- si-sau-pi'nafek  
 Exocyclic -- si-da-kuvik  
 Exocytosis -- nala-kaushau-khrashaya  
 Exodermis -- si-gir-tin  
 Exoskeleton -- si-hinek-velek  
 Exosphere -- si-ek'shal  
 Exostosis -- hinek-vihk  
 Exotic (adj.) -- akan(-) (not native); ritsuri(-) (unusual)  
 Exotic species -- akan-koshtri  
 Exotoxin -- pasi-hasam  
 Exotropia -- sa'le-da-nosh t'bezhun(lar)  
 Expand -- sa'ovau

Expander -- sa'ovayek  
 Expanse -- iraktra  
 Expansion -- sa'ovaya  
 Expansion curve -- sa'ovau-tsa  
 Expansion engine -- sa'ovau-masu-mishu  
 Expansion joint -- sa'ovau-lesek  
 Expansion tank -- sa'ovau-tuhlek  
 Expansion valve -- sa'ovau-spunek  
 Expect -- gish  
 Expectation -- gishat  
 Expected (n.) -- gishu  
 Expel -- sahausau  
 Expense -- kodona (anc.)  
 Expensive -- kodonuhk (anc.)  
 Experience -- veshtau, veshtaya  
 Experiment (n.) -- spolek (anc.)  
 Experimental error -- spolek-lafosh  
 Expert (n.) -- hiyasu  
 Expiration -- yaushan (ending); sa'le-eshan (med.)  
 Expire -- yausha (end); sa'le-esh-tor (med.)  
 Explain -- danau  
 Explanation -- danaya  
 Explode -- thorshau  
 Explosion -- thorshaya  
 Explosive (adj.) -- thorshauk  
 Explosives -- thorshau-tukh  
 Exponent -- ashenek  
 Exponent laws -- ashenek-gavlar  
 Exponential distribution -- ashenek-sagan  
 Exponential function -- ashenek-kek  
 Exponential growth -- ashenek-to'ovaya  
 Exponential integration -- ashenek-ketilaya  
 Exponential series -- ashenek-weizehl  
 Expose -- sashavau  
 Exposure -- sashavaya  
 Exposure dose -- sashavau-fim  
 Exposure meter -- sashavau-thonek  
 Exposure value -- sashavau-tala  
 Express (v.) -- satiben (utter); sagluvau (display, show)  
 Expression -- satun (utterance); sagluvaya (facial display)  
 Expulsion -- sahausaya  
 Expunge -- ek'ennem-tor  
 Exsanguinate -- ek'khafau  
 Exsanguination -- ek'khafaya  
 Exsiccate -- psethau  
 Extant -- i'hatik  
 Extemporaneous -- rikoplan-, rikoplanik  
 Extend -- sadvun-tor  
 Extender -- sadvun-tukh (chem.), sadvun-vel (mech.)  
 Extensible -- sadvun-yehat  
 Extension -- sadvunan  
 Extensometer -- tinga-rub-thonek  
 Extensor (anat.) -- sadvunek

Extent -- sadvun  
 Exterior -- si-, sik (adj.); sin (n.)  
 Exterior angle -- si-vulu  
 Exterminate -- ek'stau  
 Extermination -- ek'staya  
 External (adj.) -- si-, sik  
 Externalization -- sikaya  
 Externalize -- sikau  
 Extinct -- ek'tevik  
 Extinction -- ek'tevan  
 Extinguish -- sayonotau  
 Extinguisher -- sayonotayek  
 Extirpate -- ek'snesh-tor  
 Extirpation -- ek'snesh  
 Extra (adj.) -- hayaik (additional); weht(-) (more)  
 Extracellular -- si-nala-, si-nalaik  
 Extrachromosomal -- si-toltra-, si-toltraik  
 Extracorporeal -- si-vukhut-, si-vukhutik  
 Extracranial -- si-grat-, si-gratik  
 Extract -- saseshau (v.); saseshak (n.)  
 Extraction -- saseshaya  
 Extractor -- saseshayek  
 Extradite -- tosatana  
 Extradition -- tosatana  
 Extragalactic -- si-yel-halekik  
 Extralegal -- si-to-gavik  
 Extramarital -- si-kun-utik  
 Extraneous -- ribolaya-, ribolayatik  
 Extraocular muscle -- bezhun-tash-dvunek  
 Extraordinary -- wehtsuri(-)  
 Extrapolate -- sakunotau  
 Extrapolation -- sakunotaya  
 Extrasensory perception (ESP) -- si-kash-ralik pakashogaya  
 Extraterrestrial (adj.) -- si-ek'tra-, si-ek'traik; si-terra-, si-terrupik  
 Extraterritorial -- si-tsokal-, si-tsokalik  
 Extrauterine -- si-sudef-, si-sudefik  
 Extravagance -- madon'es  
 Extravagant -- madon-, madonik  
 Extravasate -- si-mev-tasau  
 Extravasation -- si-mev-tasaya  
 Extravascular -- si-mev-, si-mevik  
 Extravehicular activity (EVA) -- si-hali-torai  
 Extreme (adj.) -- mair-, mairik  
 Extremely high frequency (EHF) -- mair-pid-vakav'es (MPV)  
 Extremely low frequency (ELF) -- mair-neik-vakav'es (MNV)  
 Extremity (anat.) -- si-vukhut-krus  
 Extrude -- hishidorau  
 Extrusion -- hishidoraya  
 Extrusive rock -- hishid-kov  
 Exuberance -- mabuhl'es  
 Exuberant -- mabuhl-, mabuhlik  
 Exudate -- stan-tukh  
 Exudation -- stan

Exude -- stan-tor  
Exuviation -- saweinaya  
Eye (n.) -- bezhun  
Eyeball (n.) -- bezhun(-kal)  
Eyebolt -- pakuv-terk  
Eyebrow -- bezhun-zehl  
Eyedropper -- bezhun-thekek  
Eyeglasses -- (bezhun-)zaneshu (anc.)  
Eyehole (peephole) -- zan-sharu  
Eyelash -- bezhun-isach  
Eyelet -- pi'sharu  
Eyelid, Inner -- tvi-bezhun-wein  
Eyelid, Outer -- si-bezhun-wein  
Eyepiece -- zan-krus  
Eyestalk -- bezhun-pi'fek  
Eyestrain -- bezhun-his  
Eyewitness (n.) – toglantausu

**"F" to "I"****ZHIT-FEIM TERAYA-EINGELSU - GOL-VUHLKANSU****>F< na' >I<**

Fable -- yehvaru  
 Fabric (clothing) -- sai-tukh  
 Fabricate -- zhuk-tor  
 Fabricator -- zhukek (device); zhuksu (person)  
 Façade (building) -- kelimuk (contraction of "kel-limuk")  
 Face (n.) -- limuk  
 Face-lift -- limuk-sazehlanaya  
 Facet (side) -- (khush-)vla (crystal); (ek'zer-)vla (gem); pulva (aspect)  
 Facial (adj.) -- limuk-, limukik  
 Facile (easy) -- hag-, hagik  
 Facility -- kebitra (place); hag'es (ease)  
 Facing -- limak  
 Facsimile -- rom-va'asaya (exact copy); raf-glakuv-sasaya (fax)  
 Fact -- kla-min (anc.)  
 Faction -- seshsat (anc.)  
 Factor (n.) -- klai  
 Factorial -- klayanek  
 Factoring -- klain  
 Factory -- zhuk-om (anc.)  
 Factual -- kla-minik  
 Facultative parasite -- on-neshuhk  
 Faculty -- kup'es (ability); sutra (staff)  
 Fade -- spoh, spoh-tor  
 Fadeless -- spoh-famik  
 Fader (device) -- spohek  
 Fail -- vravshau  
 Fail-safe -- shati-vravshau-korsayek (SVK)  
 Failure -- vravshaya  
 Fairing (aero.) -- tehn-zaseshau-wein  
 Fairy -- pu'a (anc.)  
 Faith -- odva  
 Falcate -- urokesor-tsaik  
 Falciform -- urokesor-shidik  
 Falcula -- tsa-spahk  
 Fall -- tevan, tev-tor  
 Fallacious -- rilokav-, rilokavik  
 Fallacy -- rilokav'es  
 Fallible -- laf-yehat  
 Fallout -- satev-tukh  
 False -- riyeht(-) (adj.); yeht-fam (adv.)  
 False alarm -- riyeht-vikayek  
 False bottom -- riyeht-lanet  
 False color -- riyeht-kur  
 False start -- riyeht-palikaya  
 Falx -- urokesor-vel  
 Fame -- khin  
 Family (kin) -- pi'maat

Famine -- mair-yem-penak  
 Famous -- khinik  
 Fan (n.) -- sovek (cooling device); vaikausu (devotee)  
 Fang -- wu-zud  
 Fantasize -- kropau  
 Fantasy -- kropaya  
 Far -- irak(-)  
 Fare (v.) -- hal-tor (go); yokul (eat); panavau (get by)  
 Farewell (n.) -- rom-halan  
 Farm -- uroshal (n.); uroshitsu (v.)  
 Farmer -- uroshitausu (TGV), uroshalsu (MGV)  
 Farmhand -- uroshal-zupsu  
 Farmhouse -- uroshal-kelek  
 Farmland -- uroz-solektra  
 Farrago -- pa-rish  
 Farther -- weh-irak  
 Farthest -- dan-irak  
 Fascia -- zhel (band); dohn (board); tersau-thalv (anat.)  
 Fascicle -- pi'slahtra  
 Fascicular -- pi'slahtra-, pi'slahtraik  
 Fascinate -- sem-tor  
 Fascinating -- sem-rik  
 Fascination -- sem  
 Fast -- sahr-, sahris (adj.); sahris (adv.); riyokul (v.)  
 Fast-acting -- sahr-toraik  
 Fasten -- terau  
 Fastener -- terayek  
 Fat -- thel-, thelik (adj.); -- thel'a (n., anc.)  
 Fat metabolism -- thel'a-di'kish-torek  
 Fate -- buk  
 Fateful -- buk-bosh  
 Father -- sa-mekh (male parent); yatau (to sire)  
 Fatigue -- zung, zung-tor  
 Fatigue limit -- zung-grei  
 Fatigue test -- zung-nisan  
 Fatty acid -- thel'a-sash  
 Faucet -- sayumak  
 Fault (n.) -- dvun-zehl (geol.); lafot (defect)  
 Faulty -- lafotik  
 Fauna -- aushfatra  
 Fax -- raf-glakuv-sasau, raf-glakuv-sasaya  
 Fear -- pthak (n.), ptha (v.)  
 Fearful -- pthak-bosh  
 Fearless -- pthak-fam  
 Feast -- gadzhak (n.); gadzhai (v.)  
 Feat -- torsh  
 Feather (n.) -- kid  
 Feathery -- kidik  
 Febrile -- taulik  
 Fecal -- pekh-, pekhik  
 Fecalith -- pekh-kov  
 Feces -- pekh  
 Fecund -- brash-, brashik



Fecundity -- brash'es  
 Fed, to be -- puyem-tor  
 Federal (adj.) -- teruk  
 Federation -- teraya  
 Federation Standard English -- teraya-eingelsu  
 Fee -- uz  
 Feeble -- kobat(-)  
 Feed (v.) -- yem-tor  
 Feedback (n.) -- pla'fun  
 Feeder -- yemek  
 Feel (v.) -- olau  
 Feeler -- olayek  
 Feeler gauge -- olau-mik-yal  
 Feeling (anat.) -- olaya  
 Feign -- vup-tor  
 Feint (n.) -- vup  
 Feldspar -- tashuhl  
 Fellow (n.) -- sasu (man); katravahsu (associate); besu (companion)  
 Female -- ko(su) (n.); ko-, koyik (adj.)  
 Feminine -- kogavik  
 Femininity -- kogav'es  
 Feminize -- koyau  
 Femoral artery -- uzh-khaf-mev t'abru-mal  
 Femoral nerve -- nen-wel t'abru-mal  
 Femur -- abru-mal-hinek  
 Fen -- map  
 Fenestra -- krani  
 Fenestration -- krani-sharushan  
 Feral -- kwai(-) (wild); funkwai(-) (reverted to a wild state)  
 Ferment (v.) -- siselau  
 Fermentation -- siselaya  
 Fermium -- sheh-tukh  
 Ferocious -- keimen(-) (anc.)  
 Ferocity -- keimen'es  
 Ferric chloride -- reh-lafu t'shek-tukh  
 Ferric oxide -- reh-eshu t'dah-shek-tukh  
 Ferriferous -- shek-tukh-mayik  
 Ferrous oxide -- eshu t'shek-tukh  
 Ferrous sulfate -- vlau-keh-eshu t'shek-tukh  
 Ferry -- mes-hali (n.); mes-lesh (v.)  
 Ferryboat -- mes-masu-hali  
 Fertile -- kanash-, kanashik  
 Fertility -- kanash'es  
 Fertilization -- vikantaya  
 Fertilize -- vikantau  
 Fertilizer -- kanash-tukh  
 Fester (v.) -- vugau  
 Festival (n.) -- gad-muf (anc.)  
 Fetal -- tvi-kan-buyik (TGV); tenkan-, tenkanik (MGV)  
 Fetch (retrieve) -- zaprah  
 Fetid -- rasvil-, rasvilik  
 Fetology -- tenkan-tal  
 Fetoscope -- tenkan-zan-vel

Fetus -- tvi-kan-bu (TGV), tenkan (MGV)  
 Feud -- naul, naul-tor  
 Fever -- tau  
 Feverish -- taulik  
 Few -- zam-, zamik (adj.); zamu (n.)  
 Fiancé -- sa-kugalsu  
 Fiancée -- ko-kugalsu  
 Fiber -- slah  
 Fiber-optic cable -- ha'gel-slah-elakh  
 Fiberglass -- slah-makh  
 Fiberscope -- ha'gel-slahik zan-vel  
 Fibrillate -- rikodikau  
 Fibrillation -- rikodikaya  
 Fibroid tumor -- slah-gnal  
 Fibroma -- slah-gnal  
 Fibromyositis -- dvunek-slah-yonshaya  
 Fibrositis -- slah-nalatra-yonshaya  
 Fibrous -- slah-, slahtik  
 Fibrous tissue -- slah-nalatra  
 Fibula -- vaukh-hinek  
 Fiction (literature) -- glenokitau-tanaf  
 Fictitious -- riyeh(-) (false); glenon-, glenonik (imaginary)  
 Field (n.) -- solai (meadow, etc.); vunai (electromagnetic, etc.)  
 Field coil -- vunai-pakuv  
 Field current -- vunai-katrom  
 Field discharge -- vunai-khrasaya  
 Field frequency -- vunai-vakav'es  
 Field generator -- vunai-ferek  
 Field hand -- solai-zupsu  
 Field magnet -- vunai-seshan-vel  
 Field star -- sa'awek-yel  
 Field strength -- vunai-karik'es  
 Field test -- na-shid-nisan  
 Field theory -- vunai-wihka  
 Field winding -- vunai-kuvoran  
 Fiend -- shaka  
 Fiendish -- shakaik  
 Fierce -- kei(-) (anc.)  
 Fiery -- yonal-, yonalik  
 Fifteen -- leh-kau  
 Fifth -- kau'rak  
 Fifty -- kau-leh  
 Fight -- puk, puk-tor  
 Fighter -- puku (person); puk-hali (vehicle)  
 Fignant -- glenel (anc.)  
 Figure (n.) -- khlop  
 Figurine -- pi'sukhlop  
 Filament -- pi'elakh (TGV); pelakh (MGV)  
 Filament lamp -- pelakh-ha'gelek  
 File (document) -- deik, deik-tor  
 Filiform -- pelakh-shidik, (og-)elakh-shidik  
 Fill -- boshau, boshaya  
 Filler -- boshau-tukh

Filling (n.) -- boshak  
 Film (n.) -- wontin (thin layer); ha'gel-dud (photography)  
 Filter -- kapol; kapol-tor  
 Filter bed -- kapol-lantra  
 Filter feeder -- kapol-yokulek  
 Filter paper -- kapol-dun  
 Filtrate -- fna-kapol-masu (liquid), fna-kapol-tukh (solids)  
 Filtration -- kapol-toran  
 Fin -- ralek  
 Finagle -- bukufunau  
 Final (adj.) -- kim-, kim-shah (anc.)  
 Finale -- kim-krus  
 Finalist -- kimsu  
 Finalize -- kim-tor  
 Finally -- t'forti (anc.)  
 Finance (v.) -- donkes-tor  
 Financier -- donkessu  
 Find -- talal, tal-tor  
 Finder -- talek (device); talsu (person)  
 Fine (adj.) -- tok-ti(-) (well); mapi' (very small); marom(-) (very good)  
 Fine (penalty) -- dotokau, dotokaya  
 Fine art -- rom-tanaf  
 Fine-tooth comb -- beyi-zud-dref  
 Fine-tune -- faika-tvelkau  
 Finger (n.) -- ozh  
 Fingernail -- ozh-felu  
 Fingerprint (n.) -- ozhidar  
 Fingerprint scanner -- ozhidar-glashayek  
 Fingertip -- ozh-sfek  
 Finish -- shaht, shahtau  
 Finite -- soshah-, soshahetik  
 Fire -- yon (n.); pohshau (v.)  
 Fire control -- pohshau-tash  
 Fire engine -- tehn-yon-hali  
 Fire foam -- tehn-yon-puhsh  
 Fire retardant -- yon-vohr-tukh  
 Fire suppressant -- yon-nelau-tukh  
 Fire suppression system -- yon-nelau-torektra  
 Fire wall -- yon-temok  
 Firearm -- pohshayek (TGV), pohshek (MGV)  
 Fireball -- yonkal  
 Fireboat -- yon-masu-hali  
 Firebomb (n.) -- yon-thorshek  
 Firebreak -- yon-foshek  
 Firebrick -- yon-dok  
 Firecracker -- thorsh-leitri  
 Firefight -- pohshautra  
 Firefighter -- sayonotausu  
 Firelight -- yon-ha'gel  
 Fireman -- sayonotausu  
 Fireplace -- yon-sha'ti  
 Firepower -- pohshau-tepul  
 Fireproof -- yon-teht

Fireside -- yon-shal  
 Firewood -- yon-lapan  
 Fireworks -- thorsh-kurosahlar  
 Firm (adj.) -- pes-, pesik  
 Firn -- maz-izh  
 First -- wuh'rak  
 First, at -- palikauk  
 First aid -- nen-skasaya  
 Fish -- aluk (n.); aluk-kum-tor (v.)  
 Fishbone -- aluk-hinek  
 Fishbowl -- aluk-kak  
 Fisherman -- aluk-kumsu  
 Fishhook -- aluk-kum-kik  
 Fishing pole -- aluk-kum-fek  
 Fission -- galu-dahshaya  
 Fission bomb -- galu-thorshek  
 Fission product -- galu-dahshau-torvak  
 Fission reactor -- galu-dahshau-folayek  
 Fissionable -- galu-dahshau-yehat  
 Fissiped -- el-ukalik  
 Fissure -- thresh  
 Fist (n.) -- ozh-dukal  
 Fit (v.) -- nunau  
 Five -- kaukuh  
 Fix (v.) -- teslau (repair); nodolau (set into place)  
 Fixation (chem.) -- nodolaya  
 Fixed element -- nodo-velak  
 Fixed point -- nodo-sfek  
 Fjord -- klehp  
 Flaccid -- nemosik  
 Flag (n.) -- haifan  
 Flagellum -- dvunel-pi'harr  
 Flagon -- magol (anc.)  
 Flagpole -- haifan-fek  
 Flagship -- fik-hali  
 Flagstaff -- haifan-zeh  
 Flake (n.) -- wef  
 Flambeau -- yonag (anc.)  
 Flamboyance -- praskul'es  
 Flamboyant -- praskul-, praskulik  
 Flame (n.) -- yai  
 Flameout (n.) -- yonan-pehkaya  
 Flameproof -- yai-teht  
 Flamethrower -- yon-pohshek  
 Flammability -- yon-yehat'es  
 Flammable -- yon-yehat  
 Flap (aero.) -- pi'rala  
 Flap angle -- pi'rala-vulu  
 Flap setting -- pi'rala-dvolaya  
 Flash -- kahai (v.), kahat (n.)  
 Flash flood -- ak'wik-abrash  
 Flash point -- kahai-sfek  
 Flasher (device) -- kahatek

Flask -- mashek  
 Flat -- pa'ash(-)  
 Flatfoot -- pa'ash'ya (contraction of "pa'ash-ash'ya")  
 Flatter (v.) -- snuhkrol-tor  
 Flattery -- snuhkrol  
 Flatulence -- pekhalan'es  
 Flatulent -- pekhalan-mayik  
 Flatus -- pekhalan  
 Flaw (n.) -- lafot  
 Fléchette -- pi'kli  
 Flee -- sasahr-tor  
 Fleet (n.) -- halitra  
 Flesh (n.) -- kahm  
 Flex (v.) -- tedvun-tor  
 Flexible -- rubilauk (adaptable); tedvunik (pliable/pliant)  
 Flexion -- tedvun  
 Flexor (anat.) -- tedvunek  
 Flexure -- tedvun(an)  
 Flicker -- hanuvau, hanuvaya  
 Flier (n.) -- hashsu (person); hashek (a thing that flies)  
 Flight -- hash (act of flying); hashalan (trip); sasahr (escape)  
 Flight control -- hash-tash  
 Flight deck -- sov-hali-tol (aircraft carrier); hashsu-shal (cockpit)  
 Flight engineer -- hash-mishek  
 Flight envelope -- hash-greyan  
 Flight level -- hash-pidek  
 Flight path -- hash-yut  
 Flight recorder -- hash-vipladayek  
 Flight status -- hash-nosh  
 Flight surgeon -- hash-hassu  
 Flint -- kil-tukh  
 Flip -- vathlau, vathlaya  
 Flipper -- mahalek  
 Float -- markek (n.); markau (v.)  
 Floatplane -- markek-sov-hali  
 Flocculant -- terkarf-tukh  
 Flocculate -- terkarf, terkarf-tor  
 Floccule -- terkarf-vel  
 Flock -- treit (n.); (pa)treitau (v.)  
 Floe, Ice -- le-suma-marshak  
 Flood -- abrash, abrash-tor  
 Floodgate -- masu-temep  
 Floodlight (n.) -- zup-ha'gelek  
 Floodplain -- abrash-eiktra  
 Floodwall -- abrash-temok  
 Floodwater(s) -- abrash-masu  
 Floodway -- abrash-mashyut  
 Floor (n.) -- lan-tol  
 Floor lamp -- lan-tol-ha'gelek  
 Floor plan -- lan-tol-torbesan  
 Flora -- kastra  
 Floral arranger -- svai-zehlausu  
 Floret -- wuh-svai-krus

Florist -- svai-zhuksu  
 Flotation -- markaya  
 Flow -- yumau, yumaya  
 Flow monitor -- yumau-thonek  
 Flow regulator -- yumau-pakhartayek  
 Flow sensor -- yumau-kashek  
 Flower -- svai, svai-tor  
 Flowmeter -- yumau-thonek  
 Fluctuate -- kapralau  
 Fluctuation -- kapralaya  
 Flue -- samev  
 Fluency (language) -- ek'ariben'es  
 Fluent (language) -- ek'ariben-, ek'aribenik  
 Fluid (n.) -- yumasu  
 Fluidity -- yumasu'es  
 Flume -- zhelesh-mashyut  
 Fluoresce -- sau-ha'tanau  
 Fluorescence -- sau-ha'tanaya  
 Fluorescent -- sau-ha'tanauk  
 Fluorine -- hosh-tukh  
 Fluorocarbon -- hosh-nol-tukh  
 Fluroscope (n.) -- sau-ha'tanau-gluvayekik zan-vel  
 Flush -- kluhvau, kluhvaya  
 Flush valve -- kluhvau-spunek  
 Fluster -- paikau, paikaya  
 Flute (musical instrument) -- kolchak  
 Flutter -- nuv, nuv-tor  
 Flux (n.) -- gasu  
 Flux capacitor -- gasu-tsorek  
 Flux coupler -- gasu-teretek  
 Fluxmeter -- gasu-thonek  
 Fly (v.) -- hash-tor  
 Flyby (n.) -- meht-hashan  
 Flying boat -- masu-sov-hali  
 Flyover (n.) -- abru-hashan  
 Flywheel -- ar'ka-halek  
 Foam -- puhsh, puhshau  
 Foamy -- puhshik (made of or resembling); puhshalik (covered by)  
 Focal length -- thakau-wu-vath  
 Focal plane -- thakau-pa'ashtra  
 Focal point -- thakaya; teretau-sfek (math.)  
 Focal ratio -- thakau-tavat  
 Focus -- thakau, thakaya; teretau-sfek (math.)  
 Focused, to be -- puthakau  
 Focusing barrel -- thakau-wun-mev  
 Foe -- hahf (adversary); nemut (enemy)  
 Fog (n.) -- ihsek (anc.)  
 Fog-drip -- ihsek-masu  
 Fogbound -- ihsek-pasht  
 Fogbow -- ihsek-kesek  
 Foggy -- ihsekweik  
 Foghorn -- ihsek-vikayek  
 Föhn, Foehn (wind) -- lamekh-suk'kunel-salan

Foil (metal) -- moktin  
 Fold -- hesha, heshan  
 Foliage -- mortra  
 Foliolate (adj.) -- mor-shidik  
 Folic acid -- khub-sash  
 Foliose -- mor-kahk  
 Folk (n.) -- sular (general plural for people); sutra (populace)  
 Folklore -- shasol-kethtra  
 Folks -- mekhu (parents); sular(-ves) (people)  
 Folktale -- sutra-varu  
 Follicle -- pi'haf  
 Follow -- zahal-tor  
 Follower -- zahelsu  
 Following (n.) -- zahalan  
 Foment -- tauvolau  
 Font -- hiktra (type); mashulek (fountain); shu-pal (source)  
 Food -- yem-tukh  
 Food chain -- yem-zektra  
 Food dispenser -- yem-tanek  
 Food poisoning -- yem-gisaman  
 Food preparer -- pilsu  
 Food synthesis unit -- yem-fereik-kebi  
 Fool (n.) -- duhsu  
 Foolery -- duh  
 Foolish -- duh-, duhik  
 Foolishness -- duh'es  
 Foolproof -- vrav-teht  
 Foot -- ash'ya (anc.)  
 Footbridge -- lates-mesut  
 Foothills -- nen-kunellar  
 Footless -- ash'ya-fam  
 Footpath -- lates-yut  
 Footprint -- ash'yaidar  
 Footwear -- ash'ya-sai-vel  
 For -- na'  
 Foramen -- sharu  
 Forb -- ri-yarik bar-got  
 Forbid -- zadau  
 Forbidden -- zad-, zadik  
 Force -- nekwitau, nekwitaya  
 Force field -- fosh-vunai  
 Force field barrier -- fosh-vunai-foshek  
 Force field generator -- fosh-vunai-ferek  
 Forced, to be -- punekwitau  
 Forceful -- nekwitau-bosh  
 Forceps -- ruskarayek  
 Forcible -- nekwitau-yehat  
 Ford -- masmezh, masmezhau  
 Forearm -- ne-kar  
 Forebears -- orfik-kel (anc.)  
 Forebrain -- fa-shad  
 Forecast -- fezanikau, fezanikaya  
 Foredeck -- fa-lan-tol

Forefather -- orfik-sasu  
 Forefinger -- kehr-ozh  
 Forefront -- dan-fa-krus (foremost part); dan-fa-shi (foremost place)  
 Foreground (n.) -- fa-mesu  
 Forehead -- fa-patam  
 Foreign -- k'shatri(-) (anc.)  
 Foreigner -- k'shatrisu  
 Foreleg -- fa-mal  
 Foreman -- zup-fulagsu  
 Foremast -- faik mashalo-thalv-lap  
 Foremost -- dan-fa-, dan-faik  
 Foremother -- orfik-kosu  
 Forename -- wuhr-ahm  
 Forepart -- fa-krus  
 Foreplane -- fa-rala  
 Foresee -- fa-glan-tor  
 Foresight -- fa-glan  
 Forestay -- fa-elakh  
 Forewarn -- fa-vikau  
 Forest -- laptra  
 Forestry -- laptra-ek'tal  
 Foretell -- fa'ariben  
 Forever -- ek'wak  
 Forge -- zhuk-fasek (n.); zhuk-fas-tor (v.)  
 Forget -- yen-tor  
 Fork (n.) -- snauk  
 Form -- shid (n.); shidau (v., mold), shidorau (v., create, build)  
 Formal (adj.) -- hotor-, hotorik  
 Format -- yidor, yidor-tor  
 Formation -- shidoraya  
 Formatting -- yidoran  
 Formless -- shid-fam  
 Formula -- nik-tok (anc.)  
 Formulate -- nik-tok-tor  
 Fortress -- klomak (anc.)  
 Forty -- keh-leh  
 Forward(s) -- fa'rak  
 Fossa -- pi'razh (depression, pit); skehl (groove)  
 Fossette -- pi'razh  
 Fossil (n.) -- vesht-ha-kov  
 Fossilize -- kovau  
 Foul (adj.) -- thruhk(-) (offensive); rislauk (impure); flalik (polluted)  
 Found (v.) -- afer-tor  
 Foundation -- nen (base); kel-nen (building); trahkel (establishment)  
 Foundation pile -- (kel-)nen-nefek  
 Foundation stone -- kel-nen-kov  
 Founder (n.) -- afersu (establisher); vishizhuksu (foundry worker)  
 Foundry -- vishizhukel  
 Fountain -- mashulek (decorative); sayumak (spring); shu-pal (source)  
 Fountainhead (source) -- nen-shu-pal  
 Four -- kehkuh  
 Fourteen -- leh-keh  
 Fovea, Foveola -- pi'razh



Fowl (n.) -- kushel  
 Fractal (n.) -- nup  
 Fraction (math.) -- krusek  
 Fracture -- shau, shaya  
 Fragile -- shau-yehat  
 Fragment -- karf, karfau  
 Fragmentation -- karfaya  
 Fragrance -- svail  
 Fragrant -- svailik  
 Frame -- nentu (n.); nentulau (v.)  
 Framework -- nentu(tra)  
 Francium -- uzh-tukh  
 Fraternal twins -- t'dahsular s'natya-yu-murlar  
 Fratricide -- kaisu-riyeht-staya  
 Fraud -- tehs  
 Fraudulent -- tehs-bosh  
 Fray (v.) -- shrau  
 Freckle (n.) -- pi'kur-shal  
 Free -- el-, elik (adj.); el-tor (v.)  
 Free charge -- el-falun  
 Free electron -- el-u'gal  
 Free radical -- el-galk  
 Free will -- el-dvelan  
 Freeborn -- el-keshtanik  
 Freedom -- el'es  
 Freeze -- le-sumau, le-sumaya  
 Freeze-dry -- pseth-le-sumau  
 Freezer -- le-sumayek  
 Freezing level -- vok t'le-sumaya  
 Freezing nucleus -- svitan-vel t'le-sumaya  
 Freezing point -- sfek t'le-sumaya  
 Frequency -- vakav'es  
 Frequency band -- vakav'es-zhel  
 Frequency converter -- vakav'es-rushanek  
 Frequency deviation -- vakav'es-tekeret  
 Frequency discriminator -- vakav'es-sakathilayek  
 Frequency distribution -- vakav'es-sagan  
 Frequency doubler -- vakav'es-dahtayek  
 Frequency modulation (FM) -- vakav'es-nakihtilaya  
 Frequency response -- vakav'es-kesaya  
 Frequency synthesizer -- vakav'es-fereikek  
 Frequency tolerance -- vakav'es-wivel'es  
 Frequent (adj.) -- vakav-, vakavik  
 Fresh -- slu-, sluk  
 Freshwater (n.) -- slor-masu  
 Friable -- hag-snaipauk  
 Friction -- tetalaya  
 Friction clutch -- tetalau-dan-runemek  
 Friction drive -- tetalau-yeturek  
 Friction feed -- tetalau-yemek  
 Friction layer -- tetalau-tin  
 Fried, to be -- pupol-tor  
 Frieze (ornamental) -- fanet-zhel

Friend -- t'hai'la (pl. t'hai'lu)  
 Fright -- kolthak  
 Frighten -- koltha  
 Fringe (n.) -- geldel (decorative border); rihk (edge)  
 From -- s'  
 From (a long way) -- kwi'  
 From (a superior) -- fasei  
 Frond -- wehk-mor  
 Front (n.) -- khom (end); praduk (meteor.)  
 Frost (n.) -- le-su (anc.)  
 Frostbite -- le-suma-yontaya  
 Frosty -- le-suyik  
 Froth (n.) -- puhsh  
 Frown -- kwal, kwal-tor  
 Frozen (adj.) -- le-sumalik  
 Fructification -- savasaya  
 Fructify -- savasau  
 Fructose -- savas-slor-tukh  
 Fruit -- savas (n.); savasau (v.)  
 Frustration -- nafuhlaya  
 Fry (v.) -- pol-tor  
 Fuchsia (color) -- ug'gahv-kur  
 Fuel -- hal-tukh (n.), hal-tukhau (v.)  
 Fuel injector -- hal-tukh-vipohshayek  
 Fuel oil -- hal-elmin  
 Fuel pump -- hal-tukh-spol  
 Fuel tank -- hal-tukh-tuhlek  
 Fugacious -- rikwon-, rikwonik  
 Fulcrum -- snet  
 Full -- bosh(-)  
 Fumarole -- fal-pa-razh  
 Fume (n.) -- panaz  
 Fumigate -- panapu-tor  
 Fumigation -- panapu  
 Fun -- mihrsh (n.); mihrsh-bosh (adj.)  
 Function (n.) -- (is-)kek (math.); is-lof (use)  
 Fundamental -- nen-, nenik  
 Fundamental form -- nen-shid  
 Fundamental group -- nen-travek  
 Fundamental particle -- nen-pi'gal  
 Fundamental system -- nen-torektra  
 Fundamental unit -- nen-kebi  
 Funds -- donketu  
 Funeral -- mem-lu til-kum (anc.)  
 Fundus -- nafek-nen  
 Fungus -- luk  
 Funnel (n.) -- woht  
 Fur (n.) -- ausachya  
 Furuncle -- pi'tak  
 Fuscous -- mu-kur  
 Fuse -- shau-vel (n.); kaunshau (v.)  
 Fuselage -- vukh  
 Fusiform -- magu-shidik

Fusion -- nala-kaunshaya (biology); galu-kaunshaya (physics)

Fusion reactor -- galu-kaunshau-folayek

Future -- fa-wak

Fuzz -- zihn

Fuzzy logic -- zih-olozhika

Gabion -- krohk

Gable -- an-bet (anc.)

Gadget -- zuvel

Gadolinium -- tuvar-tukh

Gain -- nazh(-kap), nazh-tor

Gain control -- nazh-tash(ek)

Galactic -- yel-halek-, yel-halekik

Galactic circle -- yel-halek-kuv

Galactic coordinate -- yel-halekik shi-kethel

Galactic noise -- stukh-ralash

Galactic plane -- yel-halek-pa'ashtra

Galactic rotation -- yel-halek-dan

Galaxy -- yel-halek

Gale -- karik salan

Galena (lead ore) -- ras-kov

Gall (med.) -- thel'a-zalu-masu

Gall bladder -- thel'a-zalu-nafek

Gallery -- tanaf-shi'gluvaun (place that displays artworks)

Galley -- af'tum (kitchen); suk'fel-masu-hali (ship)

Gallium -- bral-tukh

Gallop -- ausahr, ausahr-tor

Gallows -- geld-stau-nentu

Gallstone -- kov s'thel'a-zalu-nafek

Galvanize -- tsautau

Game (n.) -- zhagra

Gamete -- vinik guv-nala

Gametocyte -- rivinik guv-nala

Gametogenesis -- guv-nala-storaya

Gamma radiation -- pih-saya

Gamophobia -- kun-ut-pthak

Gang hook -- wehk-kik

Gang mold -- zehl-kushizh-vel

Gang saw -- zehl-zuneshek

Gang switch -- zehl-dvelek

Ganglion (nerve) -- weltra

Gangplank -- thro-dohn

Gangrene (n.) -- nalatra-yem-tevakh

Gangway -- thro-yut

Gantry -- zup-thro-kispek (rocketry); abonentu (support frame)

Gap (n.) -- haf

Garage (n.) -- pi'hali-kel

Garbage -- guhsh

Garden (n.) -- bah-ker (anc.)

Gardener -- bahsu

Gargantuan (adj.) -- masuk'

Gargle (v.) -- snuhglau

Garment (n.) -- ain

Garnet -- kaht  
 Garret -- kamu-tvi-shal  
 Garrison (n.) -- shi'ask'ersu  
 Garter -- ash'ai-zhel  
 Gas (oxygen, etc.) -- pa-tukh  
 Gas constant -- pa-tukh-ek'kat  
 Gas exchange -- pa-tukh-di'kizh  
 Gas flow separator -- dahshayek t'pa-tukh-yumaya  
 Gas gangrene -- nalatra-yem-tevakh k'pa-tukh  
 Gas grenade -- pa-tukh-thorshek  
 Gas mask -- pa-tukh-limein  
 Gas pipe -- pa-tukh-mev  
 Gas turbine -- mor-dayek t'pa-tukh  
 Gaseous exchange -- pa-tukh-di'kizh, pa'kizh  
 Gasket -- fen-tivel  
 Gasoline -- hal-masu  
 Gasoline engine -- hal-masu-mishu  
 Gasometer -- pa-tukh-thonek  
 Gasp -- hushau, hushaya  
 Gastight -- pa-tukh-fenk  
 Gastrectomy -- skaun-sa'haf-snem  
 Gastric gland -- skaun-sa'haf-pi'nafek  
 Gastric juice -- skaun-sa'haf-masu  
 Gastric ulcer -- skaun-sa'haf-razhen  
 Gastritis -- skaun-sa'haf-yonshaya  
 Gastroenteritis -- yonshaya t'neik-skaun-ek'ur  
 Gastroenterology -- skaun-ek'ur-tal  
 Gastroesophageal reflux -- pla'yumaya t'skaun-sa'haf-tuhllar  
 Gastrointestinal tract -- neik-skaun-ek'ur  
 Gastropod -- ek'ash'ya  
 Gasworks -- pa-tukh-kebitra  
 Gate (n.) -- temep  
 Gatekeeper -- temep-dvinsu  
 Gatepost -- temep-lehk  
 Gateway -- temep-sharu  
 Gather -- hoknau  
 Gathering -- hohnaya  
 Gauge (n.) -- mik-yal  
 Gavage -- mev-yeman  
 Gear (n.) -- zud-halek (mechanical); tanovau-tukh (supplies)  
 Gel -- khlup, khlupau  
 Gem -- ek'zer  
 Gender -- guv  
 Gender identity -- guv-sha'es  
 Gene -- tol  
 Gene flow -- tol-yumaya  
 Gene pool -- tol-patra  
 General -- pa'es-, paik (adj.); kahr-lan (rank)  
 General adaptation -- pa'es-rubilaya  
 General anesthesia -- ek'kashan-ne-meil  
 General diameter -- pa'es-fna-thon  
 General position -- pa'es-rak  
 Generate -- fer-tor

Generator -- ferek  
Genesis -- tveshu (origin); storaya (creation)  
Genetic -- tol-, tolik  
Genetic code -- tol-kiht  
Genetic disease -- tol-has  
Genetic engineering -- tol-mish-tal  
Genetic marker -- tol-ulidek  
Genetics (study) -- tol-tal  
Genitalia, External -- si-guv-kruslar  
Genome -- tol-var  
Genotype -- tol-ves  
Genus -- komak  
Geochemistry -- solektra-meil-tal  
Geodesic -- skonn-zehlik  
Geohydrology -- ne'rak-masu-tal  
Geology -- solektra-tal  
Geomagnetic activity -- solektra-seshan-toran  
Geomagnetism -- solektra-seshan  
Geometric distribution -- khlop-thon-sagan  
Geometric sequence -- khlop-thon-zehlanaya  
Geometric series -- khlop-thon-weizehl  
Geometry -- khlop-thonik su'us-ek'tal  
Geomorphology -- solektra-shid-tal  
Geophysics -- solektra-tor-tal  
Geophyte -- ne-lesh-kastik  
Geosuture -- kovtra-ragel-shal  
Geriatrics -- shakhu-tal  
Germ -- talvot  
Germanium -- tovek-tukh  
Gerontology -- shakhuvaya-tal  
Gestation -- sudef-wak  
Get -- prah  
Get back -- zaprah  
Get by -- panavau  
Geyser -- masu-pohshuk  
Ghost -- tam'a (anc.)  
Giant (n.) -- masuk'veh  
Gift -- tan (present); ta'an (older form for very valuable items)  
Gigantic -- masuk'  
Gill -- masu-eshanek  
Gingiva -- zud-nalatra  
Gingivitis -- zud-nalatra-yonshaya  
Girl -- ko-kan  
Give -- tan-tor  
Give access -- throks (anc.)  
Given, to be -- putan-tor  
Gizmo -- zuvel  
Glaciation -- (ek')le-suma-wein  
Glacier -- dvun-le-sumatra  
Glaciology -- le-suma-tal  
Gland -- pi'nafek  
Glass -- makh  
Glassblower -- makh-salursu

Glasses (spectacles) -- (bezhun-)zaneshu  
 Glassmaker -- makh-zhuksu  
 Glaucoma -- (ritsuri) bezhun-ne'hish-nosh  
 Glob -- vihk  
 Globe -- ek'tra-dukal  
 Globular cluster -- dukal-yel-travek  
 Glossalgia -- lahv-kusut  
 Glossitis -- lahv-yonshaya  
 Glottis -- spes-vel  
 Glow -- min, min-tor  
 Glucose -- nen-slor-tukh  
 Glucosuria -- ritsuri-nosh t'nen-slor-tukh svi'vazh  
 Glut -- (pid-)mau-tan  
 Gluteus -- pla'krus-dvunek  
 Glutton -- (yem-)mausu  
 Glycosuria -- pid-nosh t'slor-tukh svi'vazh  
 Gneiss -- thrakh (anc.)  
 Gnomon -- kruhk  
 Go -- hal-tor  
 Goal -- terai  
 God -- ekon; Oekon  
 Gold (n.) -- kin-tukh  
 Gold foil -- kin-tukh-thalv  
 Gold leaf -- kin-tukh-mor  
 Golden -- kin-kur  
 Goldenrod (color) -- yelas-kur  
 Gonad -- guv-nafek  
 Gonadotropin -- dau-tukh t'guv-nafek  
 Gong (n.) -- kep  
 Good -- rom  
 Goofy -- duh-, duhik  
 Googol -- teh-ri-su'us  
 Gorn (being/language) -- Gornarsu  
 Grab -- runem, runem-tor  
 Graben (geol.) -- dvun-zehl-treshaya  
 Gradient -- vulak  
 Grain -- yartik  
 Grammar -- zhit-isan  
 Granite -- zasuhl (anc.)  
 Grant (v.) -- vahl  
 Graph -- sfek-besan (n.), sfek-bes-tor (v.)  
 Graphite -- lerash-nol-tukh  
 Grasp -- ruskarau, ruskaraya  
 Grass -- yar  
 Grassland -- yartra  
 Grave (n.) -- shi'vukhut  
 Gravel -- krus-kov  
 Gravimeter -- ne-seshan-thonek  
 Gravimetric pulse -- seshilan-sagaya  
 Gravimetric scanner -- seshilan-glashayek  
 Gravimetric shear -- seshilan-eitaya  
 Gravitic mine -- seshu-ip-thorshek  
 Graviton -- sesh'gal

Graviton beam -- sesh'gal-zehlek  
 Graviton field -- sesh'gal-vunai  
 Graviton stabilizer -- sesh'gal-tihetilayek  
 Gravity -- ne-seshan  
 Gray -- zhai-kur  
 Gray matter -- zhai-nalatra  
 Great -- lo'uk  
 Greater than (math.) -- weht do  
 Green -- yar-kur  
 Greenhouse -- kastik-kel  
 Greenhouse effect -- kastik-kel-daya  
 Greenhouse gas -- pa-tukh t'falek-pash  
 Greenstick fracture -- treshau-shaya (TGV), treshaya (MGV)  
 Greet -- na'shau  
 Greeted, to be -- puna-shau  
 Greeting -- na'shaya  
 Grenade -- lehm-thorshek  
 Grid (n.) -- vis  
 Grief -- tushat  
 Grind (v.) -- grazhau  
 Grinder -- grazhayek  
 Groin -- neikah  
 Gross anatomy -- nen-vukhut-tal  
 Ground -- solektra  
 Ground cover -- lap-solektra-wein  
 Ground layer -- kas-solektra-tin  
 Groundwater -- ne'rak-masu  
 Group (n.) -- travek  
 Grove -- pi'laptra  
 Grow -- to'ovau  
 Growing season -- to'ovau-tevun-yonuk  
 Growth -- to'ovaya; to'ovak (biol., med.)  
 Growth hormone -- to'ovau-dau-tukh  
 Growth regulator -- to'ovau-khartek  
 Guard -- klashausu (n.), klashau (v.)  
 Gubernaculum -- pihlora-vel  
 Guest -- be'hai'la (anc.)  
 Guide -- kakhartau (v.); kakhartayek (mech.), kakhartausu (person)  
 Gulf (ocean.) -- suk'tchol  
 Gullet -- yokul-mev  
 Gum -- lag  
 Gums (mouth) -- zud-wadi  
 Gun -- pohshayek (TGV), pohshek (MGV)  
 Guyot -- masutra-pa'ash-kunel  
 Gymnosperm -- riwein-nei-kastik  
 Gynecologist -- ko-hassu  
 Gynoecious -- ko-gohik  
 Gynoecium -- ko-svai-krus  
 Gypsum -- aukh (anc.)  
 Gyrodyne relay -- pada-toranu-gol'dvunek  
 Gyromagnetic stabilizer -- pada-seshan-tihetilayek  
 Gyroscope -- vo'ekti-padanek

Habit(s) -- es'merka (anc.)  
 Habitat -- ha'kiv-shal  
 Hafnium -- dzhanya'an-tukh  
 Hail (n.) -- masu-kov  
 Hair -- isach (single strand), isachya (multiple strands)  
 Hair follicle -- isach-kal  
 Half -- ulef (anc.)  
 Half-life -- ulef-ha'kiv  
 Halite -- alem-kov  
 Hall, Hallway -- tvur  
 Hallux -- wuh'rak gof  
 Halo -- pau  
 Halophilic -- alem-ashauk  
 Halophyte -- alem-solektra-kastik  
 Hammada (geol.) -- salan-fleit-skonn  
 Hammer -- mah-vel (n.), mah-tor (v.)  
 Hand -- el'ru (anat.); elek (clock, gauge)  
 Hand grenade -- (el'ru-)lehm-thorshek  
 Hand phaser -- el'ru-wek-zehlek  
 Handle (n.) -- el'rek  
 Hang -- geldau, geldaya  
 Hangar -- hali-kel  
 Happen -- pavesh-tor  
 Happy -- kunli(-)  
 Harass -- smertau  
 Harassment -- smertaya  
 Hard -- lerash(-)  
 Harden -- lerashau  
 Hardness -- lerash'es  
 Harm (v.) -- klau  
 Harmonic coordinate -- kril-shi-kethel  
 Harmonic distribution -- kril-sagan  
 Harmonic equation -- kril-vo'ihn  
 Harmonic function -- kril-kek  
 Harmonic number -- kril-su'us  
 Harmonic sequence -- kril-zehlanaya  
 Harmonic series -- kril-weizehl  
 Harmony -- kril'es  
 Hassium -- leh-keh-tukh  
 Hat -- taik (modern, military, etc.), patam-sai (traditional)  
 Hatch (n.) -- thro-svep  
 Hate (n.) -- fnu-ven (anc.)  
 Have (own) -- ma  
 Have (participial) -- ki'  
 Head (anat.) -- patam  
 Heal -- hakau  
 Healer -- hakausu  
 Healing -- hakaya  
 Health -- muhl'es  
 Healthy -- muhl-bosh  
 Heap (n.) -- tuh  
 Hear -- zhu-tor  
 Heard, to be -- puzhu-tor



Hearing (med.) -- zhu  
 Heart -- khaf-spol  
 Heart attack -- khaf-spol-mahai  
 Heart chamber -- tvi-shal t'khaf-spol  
 Heart failure -- khaf-spol-vravshaya  
 Heart rate -- khaf-spol-tav  
 Heart valve -- khaf-spol-spunek  
 Heartbeat (rhythm) -- nel-dath t'khaf-spol  
 Heartburn -- skaun-yon  
 Heat -- falek, falek-tor  
 Heater -- falekek  
 Heaven -- oigen  
 Heavy -- ras (anc.)  
 Hectogon -- teh-vla  
 Heel (n.) -- timut  
 Height -- pidek  
 Hekistotherm -- pid-samek-kastik  
 Held, to be -- pumeskarau  
 Helicopter -- da-rala-hali  
 Heliophyte -- ek'ha'gel-kastik  
 Helium -- tahal-tukh  
 Helix -- kulan  
 Hell -- bogozh (anc.)  
 Helm (station) -- dakharau-shal  
 Helophyte -- ulef-masu-kastik  
 Help -- gol'nev (n.), gol-tor (v.)  
 Helper -- gol'nevsu  
 Hemangioma -- khaf-mev-gnal  
 Hematology -- khaf-tal  
 Hematoma -- khaf-yarek  
 Hematuria -- vazh-khaf-nosh  
 Hemoglobin -- khaf-esh-meil  
 Hemolytic anemia -- ritsuri-nehaya-nosh t'khaf-meil  
 Hemophilia -- ritsuri-vihk-nosh  
 Hemorrhage -- khafaya  
 Hemostasis -- khafau-pehkaya  
 Hepatitis -- nehasamek-yonshaya  
 Hepatology -- nehasamek-tal  
 Hepatoma -- nehasamek-gnal  
 Heptadecagon -- leh-steh-vla  
 Heptagon -- steh-vla  
 Herb -- bar-got (anc.)  
 Herbovore -- kastik-yokulsu  
 Herd (n.) -- kuht  
 Here -- la, la'  
 Hereditary -- samekhik  
 Heretic -- ak'spra (anc.)  
 Hermaphrodite -- on-kuvsu  
 Hermaphroditic -- on-kuvik  
 Hernia -- faka  
 Herpetology -- ukraluk-tal  
 Hesitation -- vaunah  
 Hesperidium -- duf-krus-savas

Heterochrony -- natya-wak-vin  
 Heterogamete -- natya-guv-nala  
 Heterogamy -- natya-guv-kanashivaya  
 Heteromorphic -- natya-shidik  
 Heterophylly -- natya-mor-nosh  
 Heterosis -- rish-hakar  
 Hexadecagon -- leh-sheh-vla  
 Hexagon -- sheh-vla  
 Hexahedron -- sheh-muk  
 Hexaoctahedron -- sheh-oh-muk  
 Hexose -- sheh-slor-tukh  
 Hiatus -- sharu (med.); tin-svi'shaya (geol.)  
 Hiccup -- huhk, huhk-tor  
 Hide (v.) -- ip-sut (anc.)  
 Hidden (adj.) -- ip-, ipik  
 High -- pid  
 High plain -- pid-eiktra  
 High tide -- pid-mashen  
 High-water interval -- svi-wak t'pid-masu  
 High-water mark -- ulidar t'pid-masu  
 Highland(s) -- pid-shal(tra)  
 Hill -- kunel  
 Hilum -- tersau-ulidar  
 Hindsight -- za-glan  
 Hinge (n.) -- tu'adayek  
 Hip -- gaf  
 Hirsutism -- isach'es-nosh  
 Hiss -- shisya, shisau  
 Histochemistry -- numo-kelek-tal t'nala eh nalatra  
 Histology -- numo-kelek-tal  
 Historic -- vesht-varik  
 History -- vesht-var  
 Hit -- kwul, kwul-tor  
 Hoax (n.) -- tasadi  
 Hodgepodge -- pa-rish  
 Hold -- meskarau, meskaraya  
 Holding cell -- potau-tvi-shal  
 Hole -- razh  
 Holmium -- te'rikh-tukh  
 Holo-emitter -- reh-bikuv-sayek  
 Holodeck -- reh-bikuv-sutauk  
 Hologram (object or non-sentient being) -- reh-bikuv  
 Hologram (image of sentient being) -- reh-bikuvsu  
 Holographic projector -- reh-bikuv-salehmek  
 Holomatrix -- reh-bikuv-viskulan  
 Holy -- vai  
 Home -- ha-kel  
 Homeostasis -- tihet-vo'ektilahr-venek  
 Homosexual (n., male) -- sa-ka-ashausu  
 Homosexual (n., female) -- ko-ka-ashausu  
 Honest -- trau  
 Honesty -- trau'es  
 Honor -- dor, dor-tor

Honorable -- dorli (anc.)  
 Honored, to be -- pudor-tor  
 Hood -- fash  
 Hook (n.) -- kik  
 Hope -- rok, rok-tor  
 Horizon -- ir-zehl  
 Horizontal -- yutik  
 Horizontal fault -- yutik dvun-zehl  
 Hormone -- dau-tukh  
 Horn (of an animal) -- stonn  
 Horotely -- bov-wakrubaya  
 Horripilation -- isachya-shen  
 Horst (geol.) -- dvun-zehl-shen  
 Hospital -- shi'has  
 Host (n.) -- kasu  
 Hot -- fal  
 Hour -- wadan  
 House -- kelek  
 How -- uf  
 Howl -- vlut (n.), vlur (v.)  
 Huge -- masuk'  
 Hull -- vukh  
 Human (adj.) -- komihn  
 Humerus -- abru-kar-hinek  
 Humid -- sov-masupik  
 Humidity -- sov-masu'es  
 Humification -- ha-solek-storaya  
 Humus -- ha-solek  
 Hunger (n.) -- avon (anc.)  
 Hunger (v.) -- avon-telik (anc.)  
 Hungry -- k'avon  
 Hurricane -- suk'masutra-eshu'a  
 Hurt (to injure) -- dash-tor  
 Husband -- sa-telsu  
 Hyaline -- makhik  
 Hyaline cartilage -- nen-rihinek  
 Hybrid -- rish-ha-vel  
 Hybrid vigor -- rish-hakar  
 Hybrid zone -- rish-ha-shal  
 Hydraulic action (geol., physics) -- dvun-masu-torai  
 Hydraulics (study) -- masu-mish-tal  
 Hydremia -- ritsuri-pid-tavat t'khaf-masu  
 Hydric -- pid-masu'es-kasik  
 Hydroclastic rock -- masu-torai-kov  
 Hydrodynamics -- masu-dvun-tal  
 Hydrogen -- masu-tukh  
 Hydrolith -- samasu-kov  
 Hydrologic(al) cycle -- masu-da-nel  
 Hydrology -- masu-tal  
 Hydrolysis (biochem.) -- tukh-masu-folaya  
 Hydrometeorology -- sov-masu-tal  
 Hydrometer -- masu-thonek  
 Hydronephrosis -- ritsuri-masu-sa'ovaya t'kapol-nafek

Hydrophobia -- masu-pthak  
 Hydrophyte -- pid-masu'es-kastik  
 Hydroponics -- risolek-to'ovayek  
 Hydrosprayer -- vunai-mish-raul  
 Hydrosphere -- masu-ek'shal  
 Hydrostatics -- masu-shom-tal  
 Hydrothermal deposit -- fal-masu-titaya  
 Hygrometer -- sov-masu-thonek  
 Hygrophilous -- masu-shal-ashauk  
 Hygroscopic nucleus -- svitan-vel t'masu-shidau  
 Hygroscopic water -- solek-potau-masu  
 Hyoid bone -- lahv-hinek  
 Hyperbaric chamber -- tvi-shal t'pid-sov-ne'hish  
 Hyperbola -- pidvalu  
 Hyperbolic geometry -- pidvalu-khlop-thonik su'us-ek'tal  
 Hyperbolic plane -- pidvalu-pa'ashtra  
 Hyperbolic point -- pidvalu-sfek  
 Hypercapnia -- pid-nosh t'dah-eshu t'nol-tukh svi'khaf  
 Hyperemia -- pid-shal-khaf  
 Hypergeometric distribution -- pid-khlop-sagan  
 Hypergeometric function -- pid-khlop-kek  
 Hypergeometric series -- pid-khlop-weizehl  
 Hyperglycemia -- pid-nosh t'khaf-slor-tukh  
 Hypernea -- sahris-eshan  
 Hyperopia -- za-thakau-nosh  
 Hyperpigmentation -- ritsuri-pid-nosh t'wadi-kur  
 Hyperplasia -- pid-krus-storaya  
 Hyperpyrexia -- ritsuri-pid-nosh t'vukhut-falek'es  
 Hypertension -- pid-khaf-ne'hish  
 Hypertrophy -- krus-sukaya  
 Hypervelocity impact -- kwul t'dan-pid-threshan  
 Hyperventilation -- nuh'mau-eshan  
 Hyphen -- pakh  
 Hypogean -- ne-solektra-hatik  
 Hypoglossal nerve -- vinem-lahv-wel  
 Hypoglycemia -- neik-nosh t'khaf-slor-tukh  
 Hypolimnion -- glu-masu-tin t'suk'muzh  
 Hypopigmentation -- ritsuri-neik-nosh t'wadi-kur  
 Hypoplasia -- neik-krus-storaya  
 Hypospray -- pa-vipohtek  
 Hypotension -- neik-khaf-ne'hish  
 Hypotenuse -- sames-vulu-zehl  
 Hypothalamus -- is-lof-svitan  
 Hypothesis -- ul-wihka  
 Hypoxia -- nuh'neik-esh-tukh svi'khaf  
 Hysterectomy -- sudef-snem  
  
 Ice -- le-suma (anc.)  
 Ice age -- le-suma-pal  
 Ice floe -- le-suma-marshak  
 Ice shelf -- le-suma-eiktra  
 Iceberg -- (masutraik) le-suma-vel  
 Ictus -- mahai

Ideal (n.) -- tangu  
 Ideal number -- tangu-su'us  
 Ideal point -- tangu-sfek  
 Identical -- ka  
 Identical twins -- t'dahsular s'ka-yu-mur  
 Identification -- shasutan  
 Identify -- shasutan-tor  
 Identity -- sha'es  
 If -- kuv  
 Igneous rock -- zul-kov  
 Ignite -- yon-tor  
 Igniter -- yonek  
 Ignition -- yonan  
 Ignore -- bau-tor  
 Ignored, to be -- pubau-tor  
 Iliac artery -- uzh-khaf-mev t'neik-vukhut  
 Iliac vein -- os-khaf-mev t'neik-vukhut  
 Ill -- has-bosh  
 Illness -- has-mar  
 Illogical -- riolozhikaik  
 Image -- glakuv, glakuvau  
 Imaginary -- glenon-, glenonik  
 Imaginary number -- glenon-su'us  
 Imaginary point -- glenon-sfek  
 Imagination -- glenonaya  
 Imagine -- glenonau  
 Imitate -- va'amau  
 Immature -- rivin-, rivinik  
 Immediate(ly) -- iyi  
 Immiscible -- rirish-yehat  
 Immune -- tefosh-, tefoshik  
 Immune response -- tefosh-kesaya  
 Immune system -- tefosh-torektra  
 Immunity -- tefosh'es  
 Impact -- kwul, kwul-tor  
 Impede -- rashertau  
 Implant -- vishitau, vishitaya  
 Important -- yauluhk (anc.)  
 Impregnate -- viyatau  
 Improptu -- rikoplan-, rikoplanik  
 Impulse drive -- kwitau-yeturek  
 Impulse engine -- kwitau-mishu  
 Impulse flow regulator -- kwitau-yumau-pakhartayek  
 In (prep.) -- svi'  
 In situ -- tvi-shitik (med.); svi'rak  
 In utero -- tvi-sudefik  
 In vitro -- saha-velik  
 In vivo -- tvi-ha-velik  
 Inactive -- yukup-, yukupik  
 Incision -- nesh  
 Incite -- tauvolau  
 Incline -- vul, vul-tor  
 Inclinator -- galat-thonek

Include -- vinam-tor  
Inclusion -- vinam  
Inclusion map -- vinam-besan  
Indeed -- sprah  
Indehiscent -- rinei-savas-tu'ashik  
Independence -- tikopah (anc.)  
Index -- nakh, nakh-tor  
Index finger -- kehr-ozh  
Indicator -- yal  
Indigenous -- salatik  
Indigo -- mu'pla-kur  
Indium -- nuhsh-tukh  
Individual (person) -- wuhsu  
Indolent -- vohris-storaya  
Induce -- vimevilau  
Inducer -- vimevilayek  
Induction -- vimevilaya  
Induction grid -- vimevilau-vis  
Induction modulator -- vimevilau-nakihtilayek  
Induction stabilizer -- vimevilau-tihetilayek  
Induration -- lerashaya  
Inertial damper -- kahla-fishek  
Infant -- kan-bu  
Infarction -- tev-nalatra-storaya  
Infection -- vivotaya  
Infertile -- rikanashik  
Infinite -- va'; vaik  
Infinity -- va'es  
Inflammation -- yonshaya  
Inflate -- visovau  
Influent -- vi-yumuk  
Inflorescence -- wek-svai-velek  
Information -- ro'fori (anc.)  
Infructescence -- wek-savas-velek  
Infusion -- vismashaya  
Ingest -- yokul  
Inguinal hernia -- neikah-faka  
Inhalation -- vi'le-eshan  
Inhale -- vi-esh-tor  
Inherent -- tvi-keshik  
Inhibit -- netehnovau  
Inhibitor -- netehnovayek  
Initiator -- palikayek  
Inject -- vipohshau  
Injection -- vipohshaya  
Injector -- vipohshayek  
Injure -- dash-tor  
Injury -- dash  
Ink (n.) -- neshuk  
Inner -- tvi-, tvik  
Inner ear -- tvi-kaluk  
Inner hatch -- tvi-thro-svep  
Inoculation -- vi-kasaya

Inoculum -- vi-kas  
 Insect -- ravot  
 Inselberg (geol.) -- sa'awek-koval  
 Inside -- svi'; svi'udish  
 Insignia -- terseht  
 Insignia communicator -- terseht-sviribayek  
 Inspiration -- vi'le-eshan  
 Insemination -- sa-neitaya  
 Instability -- rifahet'es  
 Institute (n.) -- trahokna  
 Institution -- trahokna  
 Insulin -- slor-dau-tukh  
 Insult (v.) -- wahtau  
 Intake (mech.) -- prah-vel  
 Integer -- ek'su'us  
 Integral (n.) -- ketil  
 Integral calculus -- ketilik pitoh-su'us-ek'tal (TGV), ketil-su'us-ek'tal (MGV)  
 Integral equation -- ketil-vo'ihn  
 Integrate -- ketilau  
 Integration matrix -- ketilau-viskulan  
 Integrator -- ketilayek  
 Integrity -- ket'es  
 Integumentary system -- ek'wadi-torektra  
 Intellect -- kash-to-vel (anc.)  
 Intelligent -- kash-tok (anc.)  
 Intensity -- flan'es  
 Intercept -- fnakau, fnakaya  
 Intercom -- tvi-sviribayek  
 Intercom system -- tvi-sviribau-torektra  
 Intercom unit -- tvi-sviribau-kebi  
 Intercooler -- tvi-samuyek  
 Interest (n.) -- set'ko  
 Interesting -- set'ki  
 Interface (n.) -- tvihanek  
 Interfere -- snertau  
 Interior angle -- tvi-vulu  
 Interlink -- tvinaf  
 Intermittent -- rilik  
 Intermittent stream -- rilik pilash  
 Intermix chamber -- rish-folau-tuhlek  
 Internal combustion engine -- tvi-yontau-mishu  
 Internal injury -- tvi-dash  
 Internal organs -- tvi-nafeklar  
 Internal security monitor -- tvi-shar-glantayek  
 Internal transporter node -- tvi-ifisek-kal  
 Interphase -- tvi-wek  
 Interphasic coil spanner -- tvi-wekik pakuv-mish-raul  
 Interplexing beacon -- tvi-wehkilau-glaribek  
 Interrupt -- svi-shau  
 Interruption -- svi-shaya  
 Intersect (v.) -- tvimesau  
 Intersection -- tvimesaya  
 Interstice -- tvi-stukh

Interval -- tvi-eku (math.); tvi-wak (pause)  
 Intestine -- pekh-mev  
 Into -- vi'  
 Intraosseous -- vihinekik  
 Intravasation -- vimevaya  
 Intravenous -- viosik  
 Introduce -- ragtau  
 Introduced, to be -- puragtau  
 Introduction -- ragtaya  
 Intrude -- vi-kwitau  
 Intrusion -- vi-kwitaya  
 Invent -- fereik-tor  
 Invention -- fereik-vel  
 Inventor -- fereiksu  
 Inverse (adj.) -- abomesauk  
 Inversion -- abomesaya  
 Invert -- abomesau  
 Inverter -- abomesayek  
 Investigate -- men-hil-tor  
 Investigator -- men-hilsu  
 Involuntary -- shatipik  
 Iodine -- nesh-tukh  
 Ion -- falun-krus  
 Ion drive -- falun-krus-yeturek  
 Ion transtator -- falun-krus-mesnoshek  
 Ionization -- falun-shetaya  
 Ionosphere -- falun-shetau-ek'shal  
 Iridium -- ahl-tukh  
 Iridoncus -- kurak-puv  
 Iridotomy -- kurak-sharushan  
 Iris -- kurak  
 Iritis -- kurak-yonshaya  
 Iron (metal) -- shek-tukh  
 Irregular -- ripakhaik  
 Island -- vikuvtra  
 Isobar -- ka-ne'hish-zehl  
 Isodyne relay -- ka-toranu-gol'dvunek  
 Isohedron -- ka-vla  
 Isokinetic cannon -- ka-dvun-thorshun  
 Isokinetic containment field -- ka-dvunik tuhla-vunai  
 Isolation hatch -- dahshau-shal-svep  
 Isolinear buffer circuit -- ka-zehlik fukat-raf-kuv  
 Isolinear emitter -- ka-zehlik sayek  
 Isolinear memory chip -- ka-zehlik vokau-val  
 Isolinear processor -- ka-zehlik patorayek  
 Isolinear static memory core -- ka-zehlik vit-vokau-tviyan  
 Isomagnetic conduit -- ka-seshan-mev  
 Isosceles trapezoid -- dah-kaik wuh-vlavla-vel  
 Isosceles triangle -- dah-kaik reh-vla  
 Isotherm -- ka-falek'es-zehl  
 Isotope -- galu-dahsu  
 Isthmus -- solektra-naf  
 Irritant -- ornat (anc.)



Irritate -- ornai (anc.)  
Irritated -- orniaga (anc.)  
Itch -- drizh, drizh-tor  
Itching -- drizhan  
Iterate -- ashivau  
Iteration -- ashivaya  
Iterative evolution -- ashiv-velek-wakrubaya

**"J" to "L"****ZHIT-FEIM TERAYA-EINGELSU - GOL-VUHLKANSU****>J< na' >L<**

Jade -- yar-kov  
 Jar (n.) -- kak  
 Jaundice -- kur-nosh t'thel'a-zalu-masu svi'khaf  
 Jaw -- ahs  
 Jealous -- kis-ka (anc.)  
 Jeffries tube -- thro-mev t'Dzhefris  
 Jelly -- khlup  
 Jewel -- ek'zer (anc.)  
 Jewelry -- ek'zeru (anc.)  
 Join together -- terau  
 Joint (anat.) -- lesek  
 Joke (n.) -- kha'wal (anc.)  
 Journey -- halovau, halovaya  
 Joy -- mak  
 Jugular vein -- os-khaf-mev t'talu  
 Juice (med.) -- samasu  
 Juice, Fruit -- savas-masu  
 Jump (v.) -- spen-tor  
 Jungle -- nu'ri-masu-laptra  
 Justice -- yeht-gav

Kalemia -- spoh-tukh svi'khaf  
 Karst plain (geol.) -- bogosh-eiktra  
 Karyokinesis -- nala-dahsaya  
 Karyolymph -- nala-svitan-masu  
 Karyolysis -- nala-svitan-nehaya  
 Karyon -- nala-svitan  
 Karyotype -- toltra-besan  
 Keel (ship) -- (masu-hali-)plat  
 Keep (v.) -- potau  
 Keratalgia -- bezhun-wadi-kusut  
 Keratin -- si-ketek  
 Keratitis -- bezhun-wadi-yonshaya  
 Keratoderma -- stonn-wadi  
 Keratopathy -- bezhun-wadi-has  
 Kernel -- nei-eku  
 Ketoacidosis -- nalesh-sash-nosh  
 Ketone -- nalesh(-tukh)  
 Ketone body -- nalesh-vel  
 Ketonemia -- ritsuri-pid-nosh t'nalesh-vellar svi'khaf  
 Ketonuria -- ritsuri-pid-nosh t'nalesh-vellar svi'vazh  
 Ketose -- nalesh-slor-tukh  
 Ketosis -- pid-nalesh-nosh  
 Key -- tal-muv (anc.); neik-vikuvtra (ocean.)  
 Keyboard -- ozh-svin-math  
 Kidney -- kapol-nafek  
 Kill (v.) -- stau  
 Killed, to be -- pustau  
 Kind (type) -- ves

Kinesiology -- vukhut-dvun-tal  
 Kinetic detonator -- dvukwul-thorshayek  
 Kinetosis -- dvunel-has-mar  
 King -- sa-te'kru  
 Kinsman -- tomasu  
 Kiss -- shok, shok-tor  
 Kitchen -- af'tum (anc.)  
 Klingon -- Tlingansu  
 Knee -- mal-nef  
 Knee joint -- mal-nef-lesek  
 Kneecap -- mal-nef-hinek  
 Knife -- lipau  
 Knob -- elat  
 Knoll -- pi'kunel  
 Know -- fai-tor  
 Knowledge -- fai-tukh  
 Known (n.) -- fainu  
 Known, to be -- pufai-tor  
 Knuckle -- ozh-lesek  
 Krypton -- l'langon-tukh  
 Kwashiorkor -- fam-ketek-has  
 Kyphosis -- tchorka-pla'dor(-nosh)

Labor -- zup, zup-tor  
 Laboratory -- ek'tal-zup-shal  
 Laccolith -- patam-zul-koval  
 Laceration -- nesh  
 Lack -- fam, fam-tor  
 LaCoya spanner -- mish-raul t'LaKoya  
 Lacrimal duct -- bezhun-masu-mev  
 Lacrimal gland -- bezhun-masu-pi'nafek  
 Lacrimation -- bezhun-mashaya  
 Lactase -- thas-skaun-zalu  
 Lactation -- thasaya  
 Lactiferous duct -- thas-mev  
 Lactose -- thas-slor-tukh  
 Ladder -- pu'uth (anc.)  
 Lagoon -- masutra-muzh  
 Lahar -- fal-vrel-yumaya  
 Lake -- suk'muzh  
 Lamina -- thalv-velek  
 Lamine (adj.) -- tinik  
 Lamp (elect.) -- ha'gelek  
 Lamp (with fuel and wick) -- yonet  
 Lampblack -- nol  
 Lance (n.) -- li-wun  
 Lanceolate -- li-wun-shidik  
 Land (n.) -- solektra (ground); shasol (nation)  
 Landing bay -- fisolekau-sutauk  
 Landslide (rock and soil) -- solek-skish  
 Landslide (rock only) -- kov-skish  
 Language -- gen-lis (anc.)  
 Lantern -- (makh-)yonet

Lanthanum -- vrodak-tukh  
Laparoscope -- feshek-zan-vel  
Laparotomy -- feshek-sharushan  
Large -- suk  
Laryngitis -- shi'spes-yonshaya  
Laryngopharynx -- neik-drahk  
Larynx -- shi'spes  
Laser -- ha'zehlek  
Laser cannon -- ha'zehlek-thorshun  
Last -- kim-shah (adj.); palesh-tor (v., endure)  
Latch (n.) -- kuhr  
Late -- tab-ma (anc.)  
Lateral impulse control system -- vlaik kwitau-tash-torektra  
Lateral impulse thruster -- vlaik kwitau-kwitek  
Latex -- kas-wan-tukh  
Lathe -- da-skrimek  
Lattice -- nentu-vis  
Launch -- spusau, spusaya  
Launch bay -- spusau-sutauk  
Launch sequencer -- spusau-zehlanayek  
Launched, to be -- puspusau  
Lava -- zul  
Lava flow -- zul-yumaya  
Lava lake -- zul-muzh  
Lava tube -- zul-ur  
Lavender (color) -- pulu-kur  
Law -- to-gav (anc.)  
Lawrencium -- nau-tukh  
Lay -- ti  
Layer -- tin  
Lazy -- kas'el (anc.)  
Lead (metal) -- ras-tukh  
Lead (v.) -- fulag-tor  
Lead, to be -- pufulag-tor  
Lead-acid battery -- ras-sash-kipof  
Leaf -- mor  
Leaflet -- wuh-mor-krus  
Leak -- tasau, tasaya  
Lean -- galat, gal-tor  
Learn -- oren-tor  
Least, At -- k'puu (anc.)  
Leather -- duf  
Leave -- trasha  
Lee wave -- hayal-sov-pral  
Left (direction) -- los'rak  
Leg -- mal  
Legacy -- visak'a (anc.)  
Leisure -- el-wak  
Length -- wu-vath  
Lengthen -- wuvau  
Lens -- gelek  
Lentic -- hayal-masutik  
Lenticular -- dah-si-gelekik

Lepidote -- pi'wef-weinik  
 Lepis -- pi'wef  
 Leptodermous -- wonil-wadilik  
 Lesbian (n.) -- ko-ka-ashausu  
 Lesion -- sval  
 Less -- ten  
 Less than (math.) -- ten do  
 Lesson -- tupa  
 Let -- kal-tor  
 Letter (alphabet) -- zun  
 Leukocyte -- wan-khaf-nala  
 Leukoplakia -- wan-shal-bosh t'nala-tin  
 Leukotrichia -- wan-isachya-bosh  
 Levator (anat.) -- ashenek  
 Levee (n.) -- pamashok  
 Level -- vok, vok-tor; vok-, vokik  
 Liane, Liana -- man-kastik  
 Librarian -- dunapsu  
 Library -- shi'dunap  
 Library computer -- oska-tum-vel  
 Lie (on) -- ti  
 Lieutenant (naval/Starfleet) -- ot-lan  
 Lieutenant (army/marine) -- wuh-lan, fosh-lan  
 Lieutenant commander (Starfleet) -- tra-lan  
 Life -- ha'kiv  
 Life cycle -- ha'kiv-da-nel  
 Life support -- ha'kiv-nenikaya  
 Lifeboat -- rishan-hali  
 Lifeform -- ha-vel  
 Lifepod -- rishan-tvi'haf  
 Lift (v.) -- aberau  
 Ligament -- hinek-tersayek  
 Light (not dark) -- ha'gel(-)  
 Light (weight) -- ta'hal  
 Light blue -- ha'pla-kur  
 Light bulb -- ha'gelek  
 Light green -- ha'yar-kur  
 Light panel -- ha'gel-math  
 Lighthouse -- (masu-)ha'zehl-kel  
 Lighting -- ha'gelan  
 Lightning -- igen-wesh  
 Like -- tishau, tishaya  
 Likely -- kesik  
 Limb (anat.) -- sikrus  
 Limb (botany) -- (lap-)kar  
 Limbic system -- zherka-torektra  
 Limestone -- vom-tukh  
 Limit (n.) -- grei  
 Limit point -- grei-sfek  
 Limnology -- slor-masu-tal  
 Line (n.) -- zehl  
 Line element -- zehl-velak  
 Line segment -- zehl-krus

Linear algebra -- zehlik seht-su'us-ek'tal  
 Linear equation -- zehl-vo'ihn  
 Linear group -- zehl-travek  
 Linear intermix system -- zehlik rish-folau-torektra  
 Linear intermix chamber -- zehlik rish-folau-vel  
 Linear operator -- zehl-el'torayek  
 Liner, Ocean -- masutra-su-yata  
 Linguistics -- gen-lis-tal  
 Lining -- tvitaya  
 Link -- naf, naf-tor  
 Linked, to be -- punaf-tor  
 Lint -- saizhiv  
 Lip -- bru  
 Lipemia -- pid-thel'a-nosh svi'khaf  
 Lipoma -- thel'upik gnal  
 Lipoprotein -- thel'a-ketek  
 Liposarcoma -- thel'a-nala-rasahtra  
 Liquid -- masu  
 Liquify -- vimashau  
 List (lean) -- galat, gal-tor  
 List (catalog, index) -- feim, feim-tor  
 Literature -- kitau-tanaf  
 Lithiasis -- nafek-kov-torvaya  
 Lithification -- kovtaya  
 Lithium -- pim-tukh  
 Lithosphere -- kov-ek'shal  
 Lithuresis -- kov-vazhaya  
 Little -- pi'  
 Little finger -- wuhr-ozh  
 Littoral (area) -- mashen-shahov-shal  
 Littoral (system) -- gef-glu'es  
 Live (v.) -- ha-tor  
 Live (a long time) -- dif-tor  
 Liver (anat.) -- nehasamek, nehasamau-nafek  
 Liverwort -- yekvat  
 Load -- tus, tus-tor  
 Loaded, to be -- putus-tor  
 Loam -- makrizhiv  
 Lobe -- shal-kal  
 Locate (v.) -- tal-tor (find); shitau (put into place)  
 Located, to be (situated) -- shiyau  
 Location -- shi  
 Lock (n.) -- klachek  
 Lock (v.) -- klacha  
 Locus -- eku-svitan  
 Loess (löss) -- salan-sal-titaya  
 Logarithm -- talashenek  
 Logarithmic distribution -- talash-sagan  
 Logarithmic integral -- talash-ketil  
 Logarithmic number -- talash-su'us  
 Logarithmic spiral -- talash-kulan  
 Logic -- olozhika  
 Logical -- olozhikaik

Long -- wu  
 Long-lasting (adj.) -- wu-palesh-, wu-paleshik  
 Long-term (adj.) -- wu'nil-, wu'nilik  
 Longevity -- difan'es (lifespan); wu'nil'es (lasting)  
 Look -- glazhau  
 Loop (n.) -- pakuv  
 Loose -- thal  
 Lore -- kethtra  
 Lose -- pak-tor  
 Loss -- pak  
 Lost -- paki-, pakik  
 Lost, to be -- pupak-tor  
 Lotic -- yumau-masutik  
 Loud -- ral  
 Love -- ashau, ashaya  
 Low -- neik  
 Low tide -- neik-mashen  
 Low-water interval -- svi-wak t'neik-masu  
 Low-water mark -- ulidar t'neik-masu  
 Lower (adj.) -- weh-ne-, weh-neik  
 Lower (v.) -- ne-tor  
 Lower factorial -- weh-ne-klayanek  
 Lower integral -- weh-ne-ketil  
 Lower limit -- weh-ne-grei  
 Lower sum -- weh-neik hau-ov  
 Loyal -- fonn  
 Loyalty -- fonn'es  
 Lumbago -- ne-pla'dor-kusut  
 Lumbar nerve -- ne-pla'dor-wel  
 Lumbar vertebra -- ne-pla'dor-hinek  
 Luminescence -- dakh-ha'tanaya  
 Lump -- vihk  
 Lunar eclipse -- aikum-ek'duv  
 Lunar regolith -- aikum-solek  
 Lunch -- khi-gad-yem  
 Lune -- tvimesau-kes-krus  
 Lung -- esh-sa'haf (TGV), eshaf (MGV)  
 Lutetium -- kern-tukh  
 Lymph -- yak(-masu)  
 Lymph node -- yak-kal  
 Lymph vessel -- yak-mev  
 Lymphocyte -- yak-nala  
 Lymphoma -- yak-gnal  
 Lysosome -- skaun-pi'vel

**"M" to "R"****ZHIT-FEIM TERAYA-EINGELSU - GOL-VUHLKANSU****>M< na' >R<**

Machine -- mish-vel  
 Macroclimate -- suk'shal-ek'nosh  
 Macrophage -- suk'yokul-nala  
 Madness -- so-resh (anc.)  
 Magenta -- mol-kur  
 Magma -- (tvi-)zul  
 Magma chamber -- zul-tvi-shal  
 Magnathrust propulsion unit -- datau-kebi t'seshan-kwit  
 Magnesium -- wal-tukh  
 Magnet -- seshan-kov, seshan-vel  
 Magnetic -- seshan-, seshupik  
 Magnetic activity -- seshan(-vunai)-toran  
 Magnetic anomaly -- seshupik flekh'es  
 Magnetic constrictor -- seshan-khluhkayek  
 Magnetic field -- seshan-vunai  
 Magnetic field drive -- seshan-vunai-yeturek  
 Magnetic field intensity -- karik'es t'seshan-vunai  
 Magnetic plasma guide -- seshan-snazh-kakhartayek  
 Magnetic repulsor -- seshan-kwitayek  
 Magnetic seal -- seshan-fen  
 Magnetic storage bottle -- seshan-korsau-tuhlek  
 Magnetism -- mokev-seshan  
 Magnetite -- seshan-tukh  
 Magnetometer -- seshan-thonek  
 Magnetosphere -- seshan-ek'shal  
 Magnifier -- sukmakhayek  
 Magnify -- sukmakhau  
 Magnitude -- pul'es  
 Mail -- sakat, sakat-tor  
 Main archives -- nen-oska  
 Main armory -- nen-wun-shal  
 Main bridge -- nen-tash-svitan  
 Main computer processor -- nen-patorayek t'tum-vel  
 Main engineering -- nen-mish-sutauk  
 Main gangway hatch -- nen-thro-svop t'thro-yut  
 Main viewer -- nen-gluyayek  
 Maintain -- rompotau  
 Maintenance -- rompotaya  
 Maintenance shop -- rompotau-zup-shal  
 Major (rank) -- tra-lan (anc.)  
 Make -- tor  
 Male -- sa; sa(-), sayik  
 Malodorous -- rasvil-, rasvilik  
 Mammary gland -- thas-pi'nafek  
 Man (n.) -- sasu  
 Manage -- khartau  
 Manager -- khartausu



Mandible -- neik-ahs(-hinek)  
 Manganese -- shel-tukh  
 Manganese nodule -- kov-dukal t'shel-tukh  
 Mangrove forest -- alem-flash-laptra  
 Mangrove swamp -- alem-flash  
 Manifold -- wehk-vel  
 Manipulate -- el'tanarau  
 Mankind -- Komihntra  
 Mantissa -- teh-krus t'talashenek  
 Mantle (geol.) -- tvi-kovtra  
 Manual (adj.) -- el'rupik  
 Manual control -- el'rupik tash(ek)  
 Many -- wehk  
 Map (n.) -- besan  
 Map (v.) -- besau  
 Margin (n.) -- rihkal  
 Marine biology -- masutra-ha-tal  
 Mark -- ulidar, ulidau  
 Marked, to be -- pu'ulidau  
 Marker -- ulidek  
 Marker beacon -- ulidau-glaribek  
 Marker buoy -- ulidayek  
 Marl -- vom-krizhiv  
 Maroon (color) -- nev-kur  
 Marriage -- kun-ut  
 Marriage challenge -- kun-ut kali-fi (anc.)  
 Marriage proposal -- kun-ut so'lik (anc.)  
 Married -- telik  
 Marrow (bone) -- hinek-masu  
 Marsh -- masu-kastra  
 Martyr -- trefem; trefei  
 Martyred, to be -- putrefei  
 Mask (n.) -- limein  
 Mass (physics) -- shivak  
 Massive -- masuk'  
 Mast (ship) -- mashalo-thalv-lap  
 Master -- trensu; tren-tor  
 Mastery -- tren  
 Mat (n.) -- pev (anc.)  
 Mate (v.) -- katelau  
 Material -- tukh  
 Mathematics -- su'us-ek'tal  
 Mating -- katelaya  
 Matriarch -- pid-kom  
 Matrix -- viskulan  
 Matrix inverter -- viskulan-abomesayek  
 Matter (material) -- tukh  
 Matter gain -- tukh-nazh  
 Matter/antimatter reactor -- folayek t'tukh-tehn-tukh  
 Matter/antimatter storage facility -- korsau-kebitra t'tukh-tehn-tukh  
 Mattress -- yuk-vel  
 Maturation -- vin  
 Mature (adj.) -- vinik

Mature (v.) -- vin-tor  
 Maturity -- vin'es  
 Mauve -- kihsh-kur  
 Maxilla -- abru-ahs(-hinek)  
 Maximize -- ek'anau  
 Maximum (n.) -- ek'an  
 May -- lau  
 Maybe -- sos'eh (anc.)  
 Meadow -- ne-yartra  
 Meal -- yem  
 Mean (average) -- bov  
 Mean (v.) -- tvai  
 Measure (v.) -- thon-tor  
 Measurement -- thon  
 Meat -- kahm  
 Meatus -- ur  
 Mechanic (person) -- tor-velsu  
 Mechanism -- tor-vel  
 Medical -- has-, hasuk  
 Medical stasis unit -- has-vitau-kebi  
 Medical tricorder -- has-reh-vipladayek  
 Medication -- haseret  
 Medicine (medical field) -- has-tal  
 Medicine (medication) -- haseret  
 Meditate -- kohl-tor  
 Medulla oblongata -- is-lof-svitan  
 Meet (v.) -- ragel-tor  
 Meiosis -- ulef-nala-dahsaya  
 Meitnerium -- leh-kau-tukh  
 Melanin -- mu-kur-tukh  
 Melanocyte -- mu-kur-nala  
 Melanoma -- wadi-rasahtra t'mu-kur-nalalar  
 Meld (n.) -- nohv  
 Melkot(ian) -- Melkotsu  
 Melt (v.) -- klimtau  
 Member -- kisu  
 Membrane -- nala-tin  
 Memory -- vokaya  
 Memory chip -- vokau-val  
 Memory core -- vokau-tviyan  
 Mendeleevium -- steh-tukh  
 Mercuric sulfide -- vlau'u t'masumok-tukh  
 Mercury (metal) -- masumok-tukh  
 Merely -- goh  
 Meristem -- um-to'ovau-nalatra  
 Meromictic -- kwon-tin-masutik  
 Mesa -- pa'ash-fiktra  
 Mesic -- svi-masu'es-kasik  
 Mesophyte -- svi-masu'es-kastik  
 Mesosphere -- svitan-sov-ek'shal  
 Message -- skladan  
 Messenger -- skladasu  
 Metabolism -- di'kish-torek

Metacarpus -- svitan-el'ru-hinek  
 Metal -- mokev (anc.)  
 Metalworker -- mokevsu  
 Metamorphic rock -- rubah-kov  
 Metatarsus -- svitan-ash'ya-hinek  
 Meteor -- wesh-kov  
 Meteor shower -- wesh-kov-tevan  
 Meteorite -- igen-kov  
 Meteorology -- igen-va-tal  
 Meter (device) -- thonek  
 Methane -- keh-masunol-tukh  
 Methanogenic -- keh-masunol-torvauk  
 Methanol -- eshu t'keh-masunol-tukh  
 Methanotroph -- keh-masunol-yokulsu  
 Methyl -- reh-masunol-tukh  
 Methylamine -- sovu t'kau-masunol-tukh  
 Methylene -- dah-masunol-tukh  
 Methyloctroph -- masunol-yokulsu  
 Metroptosis -- sudef-set  
 Mica -- timazh-kov  
 Micro-aerobic -- pi'sov-eshupik  
 Micro-computer -- numo-tum-vel  
 Micro-diagnostic table -- numo-satalau-pasu  
 Microbe -- numo-ha-vel  
 Microbial -- numo-ha-velik  
 Microbiology -- numo-ha-tal  
 Microbiota -- numo-hatra  
 Microcaliper -- numo-bal-thonek  
 Microcellular scanner -- numo-nala-glashayek  
 Microclimate -- pi'shal-ek'nosh  
 Microdyne coupler -- numo-toranu-teretek  
 Microinducer -- numo-vimevilayek  
 Microorganism -- numo-ha-vel  
 Microphone -- viralashek  
 Micropower conduit -- numo-tepul-mev  
 Micropower relay -- numo-tepul-gol'dvunek  
 Microscope -- numo-zan-vel  
 Microscopic -- numo  
 Microseism -- ri-solektra-hutaya  
 Microsurgery -- numo-sharushan  
 Microtubule -- numo-pi'mev  
 Microwave oven -- numo-pral-fasek  
 Middle -- svitan  
 Middle ear -- svitan-kaluk  
 Middle finger -- rehr-ozh  
 Midpoint -- sviti-sfek  
 Midrange -- sviti-eik'es  
 Midrib -- kas-bak, mor-bak  
 Migrate -- bashan-tor  
 Migration -- bashan  
 Might -- lau  
 Military (n.) -- askital (anc.)  
 Milk -- thas, thas-tor

Mimic (v.) -- va'amau  
 Mimicry -- va'amaya  
 Mind (n.) -- kashek  
 Mind (v.) -- pohkau  
 Mind-link -- kash-naf  
 Mind-meld -- kash-nohv  
 Minds (in meld, etc.) -- kashkau (anc.)  
 Mine (explosive) -- ip-thorshek  
 Mine (v.) -- van-tor  
 Mine(shaft) -- van-razh  
 Mineral -- ek'tukh  
 Mineralogy -- ek'tukh-tal  
 Minimum (n.) -- ten'an  
 Minor axis -- tenu-da-sfek  
 Minus -- teni  
 Mirror (n.) -- haulat  
 Mirror image -- haul-glakuv  
 Mirror plane -- haul-pa'ashtra  
 Miscible -- vi'rish-yehat  
 Miss (v.) -- din-tor  
 Missile -- yon-kliton  
 Mission (n.) -- skrol  
 Mistake -- lafosh (anc.)  
 Mitochondrion -- nala-tepul-vel  
 Mitogenic -- ek'nala-dahsau-palikauk  
 Mitosis -- ek'nala-dahsaya  
 Mitotic spindle -- ek'nala-dahsau-magu  
 Mix (v.) -- rish-tor  
 Mix (n.) -- rish  
 Mixed fraction -- rish-krusek  
 Mixed woodland -- rish-lap-shal  
 Mixer (device) -- rishek  
 Mixture -- rish  
 Moan -- nau, naya  
 Mode -- nuk  
 Modem -- na-sakihtilayek  
 Modern -- iyi-, iyik  
 Modify -- rubitau  
 Modulate -- nakihtilau  
 Modulator -- nakihtilayek  
 Module -- natel  
 Modulus -- natesh  
 Mogote (geol.) -- vom-kunel  
 Moisture -- masu'es  
 Moisture index -- masu-nakh  
 Molar -- nal-zud  
 Mold (form) -- kushizhau (v.), kushizh-vel (n.)  
 Molecular imaging scanner -- galutravek-glakuv-glashayek  
 Molecule -- galutravek  
 Molybdenum -- bulom-tukh  
 Momentum -- dvnelinak  
 Monadnock (geol.) -- haf-kunel  
 Money -- donku

Monitor (checking device) -- glantayek  
 Monitor (viewscreen) -- gluvayek  
 Monoecious -- ka-kasik  
 Monomial -- wuh-zhil  
 Monosaccharide -- wuh-slortra-tukh  
 Monozygotic twins -- t'dahsular s'ka-yu-mur  
 Monster -- stislak  
 Montane forest -- suk'kunel-laptra  
 Montane zone -- suk'kunel-shal  
 Month -- tevun-krus  
 Moon -- aikum  
 Moraine -- kov-guhsh s'dvun-le-suma  
 More -- weht  
 Morning -- asal  
 Morphogenic matrix -- shid-rub-viskulan  
 Morula -- ten-nala-dukal  
 Mosaic -- sna-lok (anc.)  
 Mosaic evolution -- nati-wakrubaya  
 Mosaic-worker -- sna-lok-zhukusu  
 Moss -- yekuhl  
 Most -- dan-, danik  
 Mother (n.) -- ko-mekh  
 Motion -- dvunel  
 Motivate -- dvubolau  
 Motivation -- dvubolaya  
 Motive -- dvubolek  
 Motor (n.) -- mishu  
 Mountain -- suk'kunel; shi'yon, zul-kunel  
 Mountain chain -- kunel-maat  
 Mountain range -- kunel-zehl  
 Mountain system -- kunel-travek  
 Mourn -- la'tusa (anc.)  
 Mourned, to be -- pula'tusa  
 Mouth -- ru'lut  
 Move -- dvun, dvun-tor  
 Move around -- padvun-tor  
 Move away from -- sadvun-tor  
 Movement -- dvun  
 Much -- mau  
 Mucous membrane -- prash-nala-tin  
 Mucus -- prash  
 Mud -- vrel  
 Mud flat -- vrel-eiktra  
 Mudflow -- vrel-yumaya  
 Mudstone -- vrel-kov  
 Multi-spatial force field -- wehk-stukhik fosh-vunai  
 Multi-spectral sweep -- wehk-kurtra-fnash  
 Multidimensional transporter -- wehk-retuka-ifisek  
 Multifactorial -- wehk-klaik  
 Multilinear -- wehk-zehlik  
 Multinomial -- wehk-zhil  
 Multiphasic scan -- wehk-wek-glashaya  
 Multiphasic shielding -- wehk-wekik fo-danan

Multiphasic sweep -- wehk-wek-fnash  
 Multiplexer -- wehkantayek  
 Multiplication -- wehkovaya  
 Multiplier -- wehkovayek  
 Multiply -- wehkovau  
 Multiseriate -- wehk-zehlik  
 Multiset -- wehk-eku  
 Murder -- riyeht-stau, riyeht-staya  
 Muriform -- dok-temok-shidik  
 Muscle -- dvunek  
 Mushroom -- taik-luk  
 Music -- ralash-tanaf  
 Musician -- ralash-tanafsu  
 Mutagen -- tselayek  
 Mutagenic -- tselau-palikauk  
 Mutant -- tsel-, tselik; tsel-vel; tselsu  
 Mutate -- tselau  
 Mutation -- tselaya  
 Mutation rate -- tselau-tav  
 Mute (adj.) -- spes-fam  
 Myalgia -- dvunek-kusut  
 Myocardial infarction -- shal-tevakh t'khaf-spol-dvunek  
 Myocardium -- svitan-tin t'khaf-spol  
 Mycology -- luk-tal  
 Myoglobin -- dvunek-esh-meil  
 Myonecrosis -- dvunek-nala-tevakh  
 Myopia -- fa-thakau-nosh  
 Myosarcoma -- dvunek-rasahtra  
 Myositis -- dvunek-yonshaya  
  
 Nacelle -- mishu-leshek  
 Nacelle support pylon -- nenikau-tersau-vel t'mishu-leshek  
 Nail (finger, toe) -- felu  
 Naked -- sai-fam  
 Name -- ahm, ahmau  
 Napkin -- ru'lut-sai  
 Nappe (geol.) -- kov-thalv  
 Narrow (adj.) -- wonil (anc.)  
 Narrow (v.) -- wonilau  
 Nasal cavity -- han-tauk  
 Nasal septum -- han-temok  
 Nasal sinus -- han-pi'tauk  
 Nasolacrimal duct -- han-bezhun-mev  
 Nasopharynx -- han-drahk  
 Nates -- pla'kruslar  
 Nation -- shasol  
 Native (adj.) -- salatik  
 Native (n.) -- salasu  
 Natural -- malatik  
 Natural equation -- malat-vo'ihn  
 Natural logarithm -- malat-talashenek  
 Natural number -- malat-su'us  
 Natural selection -- malat-dvelan

Naturalized -- malatuvauk  
 Nature -- malat  
 Nausea -- slakh  
 Navel -- kesazh  
 Navigate -- kharau  
 Navigation -- kharaya  
 Navigation control panel -- kharau-tash-math  
 Navigation light -- kharau-ha'gel  
 Navigational deflector -- kharau-sakwitayek  
 Navy -- masu'er  
 Neap tide -- dan-neik-mashen  
 Near (adj.) -- be, be'  
 Near (v.) -- betau  
 Nebula -- stukh-wan  
 Necessary -- bolayatik  
 Necessity -- bolayek  
 Neck -- talu  
 Necrosis -- nalatra-tevakh  
 Need -- bolau, bolaya  
 Needle (n.) -- (og-)lum  
 Negative (polarity) -- u'rak  
 Negative charge -- u'rak-falun  
 Neighbor -- behsu  
 Nekton -- masutraik numo-mahal-vel  
 Nematath -- zul-kunel-yut  
 Neodymium -- dar-tukh  
 Neodyne light -- uzh-toranu-ha'gel  
 Neon -- min-tukh  
 Neonatal -- uzh-keshtik  
 Neonate -- uzh-keshtu  
 Neonatology -- uzh-keshtu-tal  
 Neoplasm -- uzh-rasahtra  
 Nephralgia -- kapol-nafek-kusut  
 Nephritis -- kapol-nafek-yonshaya  
 Nephrolith -- kapol-nafek-kov  
 Nephrology -- kapol-nafek-tal  
 Neptunium -- surak-tukh  
 Neritic -- be-gefik  
 Nerve (med.) -- wel  
 Net (n.) -- vis  
 Network -- vistra  
 Neural transponder -- wel-vavayek  
 Neuralgia -- wel-kusut  
 Neuritis -- wel-yonshaya  
 Neuro-electric field generator -- vunai-ferek t'wel-raf-tepul  
 Neuro-electric power cell -- tepul-nala t'wel-raf-tepul  
 Neurotransmitter -- wel-sasayek  
 Neuron -- wel-nala  
 Neurotoxin -- wel-hasam  
 Neurotransmitter -- wel-sasau-meil  
 Neutral -- ta'raf (anc.)  
 Neutrino -- ska'gal  
 Neutron -- ta'gal

Névé -- maz-izh  
 Never -- worla (anc.)  
 Nevus -- kesh-kuraya  
 New -- uzh  
 Newborn (child) -- uzh-keshtu  
 Next -- thurai  
 Niche -- sha'ti (anc.)  
 Nickel -- orn-tukh  
 Nickel-cadmium (NiCad) battery -- orn-stal-kipof  
 Nidation -- yu-mur-vishitaya  
 Night -- mu'yor  
 Night blindness -- mu'gel-glan-fam'es  
 Nightmare -- yuk-eshu'a  
 Nimbostratus (cloud) -- tin-masu-wan  
 Niobium -- lek-tukh  
 Nipple -- thasek-gonaf  
 Nitrogen -- sov-tukh  
 Nitrogen fixation -- sov-tukh-nodolaya  
 No -- rai; ri  
 Nobelium -- oh-tukh  
 Nobility -- thol'es  
 Noble -- thol  
 Noble number -- thol-su'us  
 Nobody -- kling (anc.)  
 Nocturia -- yuk-vazhaya  
 Nocturnal -- mu'yor-wakik  
 Node -- kal  
 Nodule (geol.) -- kov-dukak  
 Noise -- ralash  
 Noise reduction circuit -- raf-kuv t'ralash-netakidaya  
 No-one -- kling (anc.)  
 Nonadecagon -- leh-nau-vla  
 Nonagon -- nau-vla  
 Nonahedron -- nau-muk  
 None -- rim  
 Nonnegative -- riu'rak  
 Nook (n.) -- sha'ti (anc.)  
 Nor -- il  
 Normal -- tsuri  
 Normal distribution -- tsuri-sagan  
 Normal equation -- tsuri-vo'ihn  
 Normal form -- tsuri-shid  
 Normal function -- tsuri-kek  
 Normal group -- tsuri-travek  
 Normal matrix -- tsuri-viskulan  
 Normal number -- tsuri-su'us  
 Normal order -- tsuri-zek  
 Normal plane -- tsuri-pa'ashtra  
 Normal section -- tsuri-fna-krus  
 Normal vector -- tsuri-vukharat  
 Normotension -- tsuri-khaf-ne'hish  
 North -- desh'rak  
 Nose -- han



Nosebleed -- han-khafaya  
 Nostrils -- han-sharular  
 Not -- ri  
 Notation -- pitohat  
 Note (n.) -- pitoh  
 Notice (v.) -- beglanau  
 Noticed, to be -- pubeglanau  
 Notochord -- fu-pla'hinek-zehl  
 Noun -- vel-zhit  
 Nourish -- yem-tan-tor  
 Nourishment -- yem-tan'es  
 Nova (n.) -- thorsh-yel  
 Now -- i, i'  
 Nucha -- talu-pla'dor  
 Nuclear -- galupik  
 Nuclear physics -- galu-tor-tal  
 Nucleoplasm -- svitan-nala-tukh  
 Nucleus (biology) -- nala-svitan  
 Nucleus (atomic) -- galu-svitan  
 Nude -- sai-fam  
 Nuée ardente (geol.) -- zul-kunel-wan  
 Number (n.) -- su'us (anc.)  
 Numbness -- rikashan'es  
 Numerator -- abru-su'us  
 Nut (botany) -- kov-savas  
 Nutrient -- yem-tanek  
 Nutrition -- yem-tan  
 Nutritious -- yem-tanik  
 Nyctalopia -- mu'gel-glan-fam'es  
 Nyctophobia -- mu'yor-pthak  
 Nycturia -- yuk-vazhaya  
 Nymphomania -- riko-guv-aitlun

Oar (n.) -- fel  
 Oasis -- shi'masu  
 Obese -- thel'an-, thel'anik  
 Obesity -- thel'an'es  
 Object (n.) -- vel  
 Object (v.) -- kluchi (anc.)  
 Obligate parasite -- ek'neshuhk  
 Oblique angle -- luf-vulu  
 Oblique-slip fault -- vul-dvun-zehl  
 Obovate -- eik-um-shidik  
 Observe -- glantau  
 Observation -- glantaya  
 Observation port -- glantau-krani  
 Observatory -- shi'igen-glantaya  
 Obsession -- ritsuri-wuh-set'ko  
 Obsidian -- zul-makh  
 Obstetrician -- ko-kesh-hassu  
 Obstruction -- klotaya  
 Obtain -- prah  
 Obtuse angle -- abru-vulu

Occipital bone -- patam-pla'dor-hinek  
 Occiput -- patam-pla'dor  
 Occur -- paresh-tor  
 Ocean -- masutra  
 Ocean trench -- (masutra-)glu-spathel  
 Oceanic -- masutra-, masutraik; sagefik  
 Oceanography -- masutra-tal  
 Oceanology -- masutra-mish-tal  
 Octadecagon -- oh-leh-vla  
 Octagon -- oh-vla  
 Octahendron -- oh-muk  
 Octakaidecagon -- leh-oh-vla  
 Oculomotor nerve -- bezhun-dvun-wel  
 Oculus -- bezhun  
 Oculus dexter (OD) -- gas-bezhun  
 Oculus sinister (OS) -- los-bezhun  
 Odd -- flekh; shaik  
 Odd number -- shaik su'us  
 Odontalgia -- zud-kusut  
 Odontiasis -- zudaya  
 Odor -- vil  
 Odynophagia -- yontau-vinem-kusut  
 Of -- t'  
 Off-white -- be-wan-kur  
 Offal -- guhsh  
 Offend -- thrap-tor  
 Offended, to be -- puthrap-tor  
 Offense -- thrap  
 Offer (n.) -- nufai  
 Offer (v.) -- nufau  
 Offering -- nufaya  
 Offshore (adj.) -- sagef-, sagefik  
 Offshore bar -- gef-mazhiv-zehl  
 Often -- k'ashiv  
 Ogee -- oluhk-tsa  
 Oil -- elmin  
 Ointment -- elmuvak  
 Old -- os  
 Old-fashioned -- vesh-nartauk  
 Olfaction -- fnish-kash-ral  
 Olfactory center -- fnish-svitan  
 Olfactory nerve -- fnish-wel  
 Oligodactyly -- ten-uklar-nosh  
 Oligodipsia -- ten-mag-nosh  
 Oligodontia -- ten-zudlar-nosh  
 Oligotrophic -- glu-kanik  
 Oliguria -- ten-vazh-torvaya  
 Oltion coil -- pakuv t'Oltion  
 Omnivore -- fan-yokulsu  
 Omphalus -- kesazh  
 On -- fi'  
 Once -- wuh'wak  
 Oncology -- gnal-tal

One -- wuh', wuhkuh; veh  
 Only -- goh  
 Ontogeny -- kai-storaya  
 Onycholysis -- felu-dahshaya  
 Onychosis -- felu-has  
 Onyx -- zer-hir  
 Onyxis -- tvi-felu(-nosh)  
 Oogenesis -- yu-mur-shidaya  
 Oophorectomy -- yukal-snem  
 Oophoritis -- yukal-yonshaya  
 Ooze (v.) -- stan-tor  
 Open (v.) -- tu'ash (anc.)  
 Open interval -- tu'ash-tvi'eku  
 Open set -- tu'ash-eku  
 Open up -- sharush (anc.)  
 Opening -- sharu (anc.)  
 Operate (med.) -- sharusha  
 Operate (run) -- el'torau  
 Operation -- el'toraya (math., etc.); sharushan (med.)  
 Operator -- el'torayek  
 Opposite (adj.) -- mesyut-, mesyutik  
 Oponin -- keful-tukh  
 Oponization -- kefulaya  
 Ophthalmectomy -- bezhun-snem  
 Ophthalmologist -- bezhun-hassu  
 Ophthalmology -- bezhun-tal  
 Ophthalmoplegia -- bezhun-shivaya  
 Ophthalmoscope -- bezhun-zan-vel  
 Optic nerve -- glan-wel  
 Optical assembly -- gla-feretai  
 Optical data network (ODN) -- gla-faik-vistra (GFV)  
 Optical interface -- gla-tvihanek  
 Optolithic data rod -- gla-kovik faik-fek  
 Optronic chip -- gla-ar'kada-val  
 Optronic data core -- gla-ar'kadaik faik-tviyan  
 Optronic integrator -- gla-ar'kada-ketilayek  
 Optronic relay -- gla-ar'kada-gol'dvunek  
 Or -- il  
 Orange (color) -- zhar-kur  
 Orbit (n.) -- pa-yut  
 Orchard -- lap-bah-ker  
 Orchidalgia -- sakal-kusut  
 Orchidectomy -- sakal-snem  
 Orchiopexy -- sakal-ne-sharushan  
 Orchis -- sakal  
 Orchitis -- sakal-yonshaya  
 Order (n., birth, seating, etc.) -- zek  
 Order (n., command) -- tran  
 Order (v., command) -- tran-tor  
 Ordered pair -- zek-shif  
 Ore -- van-tukh  
 Orexigenic -- yeht-avon-ashenauk  
 Organ (anat.) -- nafek

Organelle -- pikhut  
 Organic -- hatanik  
 Organic matter -- hatan-tukh  
 Organic rock -- ha-guhsh-kov  
 Organic soil -- hatan-solek  
 Organism -- ha-vel  
 Orifice -- sharu  
 Origin -- tveshu  
 Original -- tveshik  
 Originate -- tveshulau  
 Ornament (n.) -- fanet  
 Orogeny -- kunel-storaya  
 Orographic cloud -- suk'kunel-wan  
 Oropharynx -- ru'lut-drahk  
 Orthogonal function -- zeh-kek  
 Orthogonal group -- zeh-travek  
 Orthogonal lines -- zeh-zehllar  
 Orthogonal matrix -- zeh-viskulan  
 Orthogonal transformation -- zeh-mesuvulaya  
 Orthogonal vector -- zeh-vukharat  
 Orthopnea -- abruven-esh-nosh  
 Orthostatic -- yeht-lamanik  
 Os -- hinek  
 Oscheocele -- sakal-haf-puv  
 Osculum -- pi'sharu  
 Osmium -- um-tukh  
 Osmosis -- k'fai-sanek  
 Osmotic pressure -- k'fai-sanek-ne'hish  
 Osseous -- hinekik  
 Ossicle -- pi'hinek  
 Ossification -- hinekaya  
 Osteitis -- hinek-yonshaya  
 Osteoblast -- hinek-storau-nala  
 Osteocyte -- hinek-nala  
 Osteology -- hinek-tal  
 Osteolysis -- hinek-vashau-nosh  
 Osteoporosis -- hinek-pak-nosh  
 Osteoregenerator -- hinek-vaferek  
 Osteosarcoma -- hinek-rasahtra  
 Osteosclerosis -- hinek-ihn-nosh  
 Ostium -- sharu  
 Ostomy -- sharutaya  
 Otalgia -- kaluk-kusut  
 Other -- vath  
 Otherwise -- vathru  
 Otitis -- kaluk-yonshaya  
 Otorrhea -- kaluk-khrasaya  
 Otosclerosis -- tvi-kaluk-hinekaya  
 Otoscope -- kaluk-zan-vel  
 Outcrop(ping) -- nodahb  
 Outgassing -- sapataya  
 Outer -- si-, sik  
 Outer hatch -- si-thro-svep

Outlet -- sek  
 Outside -- s'udish  
 Outweigh -- spunsau  
 Oval -- yuv-, yuvik  
 Ovarian cancer -- yukal-rasahtra  
 Ovarian cyst -- yukal-masu-haf  
 Ovariectomy -- yukal-snem  
 Ovary -- yukal  
 Oven -- fasek  
 Over -- abru'; abru-  
 Overabundance -- (pid-)mau-tan  
 Overhang (n.) -- mesyel  
 Overload -- abru-tus, abru-tus-tor  
 Overload suppressor -- abru-tus-nelayek  
 Oviduct -- yu-mur-mev  
 Viviparous -- si-yu-mursuk  
 Ovulation -- yukaya  
 Ovulate -- yukau  
 Ovum -- (rivikantau-)yu-mur  
 Own (pron.) -- sha'  
 Own (v.) -- ma  
 Owned, to be -- puma  
 Oxidase -- esh-tukhovau-zalu  
 Oxidation -- esh-tukhovaya  
 Oxygen -- esh-tukh  
 Oxygen tank -- esh-tukh-tuhlek  
 Oxygenation -- esh-tukhaya  
 Oxyopia -- maut-zat-glan

Pachycaul -- bali-fekik  
 Pachycheilia -- bali-bru-nosh  
 Pachyderma -- bali-wadi-nosh  
 Pack ice -- le-suma-teraya  
 Page -- thalv (anc.)  
 Pain -- kusut  
 Paint -- kras, kras-tor  
 Painter -- krassu  
 Pair -- shif  
 Palate -- ru'lut-kamu  
 Pale -- spoh  
 Paleoanthropology -- vesh-komihnsu-tal  
 Paleobotany -- vesh-kastik-tal  
 Paleoclimatology -- vesh-ek'nosh-tal  
 Paleoecology -- vesh-malat-tal  
 Paleography -- vesh-kitau-tal  
 Paleontology -- vesh-ha-tal  
 Paleosol -- vesh-solek  
 Paleospecies -- vesh-koshtri  
 Paleozoology -- vesh-aushfa-tal  
 Palilalia -- zhit-ashiv-nosh  
 Palisade (geol.) -- masu-menal  
 Palladium -- krak-tukh  
 Palliative -- vasek

Pallor -- ritsuri-spoh'es  
 Palm (hand) -- ku  
 Palmate -- sau-krusik  
 Palmprint -- kuidar  
 Palmprint scanner -- kuidar-glashayek  
 Palynology -- tal t'kas-sa-nei  
 Pan (n.) -- sunil (cooking); lerakhovau-solek-tin (geol.)  
 Pancarditis -- ek'khaf-spol-yonshaya  
 Pancreas -- zalu-nafek  
 Pancreatectomy -- zalu-nafek-snem  
 Pancreatic duct -- zalu-nafek-mev  
 Pancreatic juice -- zalu-nafek-masu  
 Pancreatitis -- zalu-nafek-yonshaya  
 Pandemic -- suk'shal-has-sak  
 Pandiculation -- luvau-sakadaya  
 Panel (n.) -- wein (cover); (gluvau-)math (display)  
 Panhysterectomy -- ek'sudef-snem  
 Panic (n.) -- pahth  
 Pantothenic acid -- eklakalu-sash  
 Pants -- malanu  
 Paper (n.) -- dun  
 Paper-maker -- dun-zhuksu  
 Parabola -- dahkvalu  
 Parabolic coordinates -- dakhvalu-shi-kethellar  
 Parabolic point -- dakhvalu-sfek  
 Parabolic segment -- dakhvalu-krus  
 Paracentesis -- snem-masu-nisan  
 Parachute (n.) -- tev-sai  
 Parallel (adj.) -- vlavla  
 Parallel evolution -- vlavla-wakrubaya  
 Parallelogram -- dah-vlavla-vel  
 Parallelohedron -- vlavla-muk  
 Paralysis -- shivaya  
 Paralyze -- shivau  
 Parametallic hull plating -- plo-mokevik vukh-slaun  
 Parameter -- nus  
 Parametric equation -- nus-vo'ihn  
 Parametric test -- nus-nisan  
 Parametritis -- pa-sudef-yonshaya  
 Paranoia -- ek'pa-pthak  
 Paraparesis -- on-mal-kobat'es  
 Parapatric -- beteretik  
 Paraplegia -- dah-shivaya  
 Parasite -- neshuhk  
 Parenchyma -- nafek-is-krus  
 Parent -- mekh, mekh-tor  
 Parent material -- tveshu-tukh  
 Parents (a mother & a father) -- mekhu (or "omekhu")  
 Parents (gen. pl. or alternatives) -- mekhlar (or "omekhlar")  
 Paresis -- ul-shivaya  
 Parity -- ka'es  
 Park (n.) -- shi'yar (Earth-style); shi'sochya  
 Part -- krus

Parthenogenesis -- rivikantau-storaya  
 Partial -- ul-, ulik  
 Particle -- pi'gal  
 Particle accelerator -- pi'gal-sahrayek  
 Particle beam -- pi'gal-zehl  
 Particle density -- solek-krus-ihn'es  
 Partner (n.) -- tersu  
 Parturition -- keshtan  
 Passions -- shau-kaush  
 Passive -- ritorupik  
 Past (n.) -- vesht  
 Patella -- mal-nef-hinek  
 Patellar reflex -- mal-nef-tvisek  
 Path -- yut  
 Pathology (study) -- has-tal  
 Patience -- tranush  
 Patient (med.) -- hasausu  
 Pattern -- nel-dath (anc.)  
 Pattern buffer -- nel-dath-fukat  
 Pause -- svizh, svizh-tor  
 Pave (v.) -- elyutau  
 Pay (v.) -- vlitau  
 Payment -- vlitaya  
 Peace -- sochya  
 Peak (n.) -- feh --  
 Pebble -- da  
 Pectinate -- dref-shidik  
 Pedestal -- nelka  
 Pedogenesis -- solek-storaya  
 Pedology -- solek-tal  
 Pedophile -- kan-riashausu  
 Pelage -- ek'isachya  
 Pelagic -- masutra-, masutraik  
 Peltate -- fo-dan-shidik  
 Pelvis -- dafel  
 Peneplain -- nen-eiktra  
 Peneplanation -- nen-eiktra-skrashaya  
 Penis -- lok  
 Pentad -- kauyek  
 Pentadecagon -- kau-leh-vla  
 Pentagon -- kau-vla  
 Pentagonal dodecahedron -- kau-vlayik leh-dah-muk  
 Pentagonal number -- kau-vla-su'us  
 Pentagonal prism -- kau-vla-takurek  
 Pentagonal pyramid -- kau-vla-rekun  
 Pentahedron -- kau-muk  
 Pentakaidecagon -- leh-kau-vla  
 Pentamerous -- kau-krusik  
 Pentose -- kau-slor-tukh  
 Penumbra -- pi'duv  
 People -- sular; sutra  
 Peptide -- skaulu  
 Perceive -- pakashogau

Percent -- sateh  
 Percentage -- sateh'es  
 Perception -- pakashogaya  
 Percolation -- ne-fna-dvun  
 Perennial -- tevunik  
 Perfect -- buhfik  
 Perforate -- tilau  
 Perforation -- tilaya  
 Perhaps -- sos'eh  
 Perigee -- be-sfek  
 Perigee motor -- be-sfek-mishu  
 Perihelion -- yel-be-sfek  
 Perilymph -- kaluk-yak  
 Perimeter -- pa-thon  
 Period (time) -- wak-krus  
 Periodic -- wak-krus-, wak-krusik  
 Periosteum -- hinek-nalatra-wein  
 Periostitis -- yonshaya t'hinek-nalatra-wein  
 Peristalsis -- mev-spal-dvun  
 Peritoneum -- feshek-nalatra-tin  
 Peritonitis -- yonshaya t'feshek-nalatra-tin  
 Permeable -- sanek-yehat  
 Permease -- nala-lesh-tukh  
 Permineralization -- kovtaya  
 Permissive intrusion -- vathik zul-vi-kwitaya  
 Permutation -- sasuhlitaya  
 Perpendicular (adj.) -- sazeh-, sazehik  
 Perpendicular (n.) -- sazehl  
 Personality -- nafu'es  
 Personnel hatch -- su-thro-svep  
 Personnel locator display -- su-shi-gluvayek  
 Perspective (n.) -- vulunaya  
 Perspiration -- wadashaya  
 Perspire -- wadashau  
 Pester -- smertau  
 Pet (n.) -- kelek-aushfa  
 Petal -- kur-mor  
 Petiole -- mor-pi'fek  
 Petrification -- kovtaya  
 Petrified -- kovtulik  
 Petrochemistry -- kov-meil-tal  
 Petrogenesis -- kov-storaya  
 Petroglyph -- kov-kitaya  
 Petrol -- hal-masu  
 Petroleum -- ek'elmin  
 Petrology -- kov-tal  
 Petty officer -- traveksu  
 Phacolith -- zul-vulaya-koval  
 Phagocyte -- yokul-nala  
 Phalanges -- uk-hineklar  
 Phalluncus -- lok-gnal  
 Phallus -- lok  
 Pharmacology -- haseret-tal



Pharyngitis -- drahk-yonshaya  
 Pharyngodynia -- drahk-kusut  
 Pharynx -- drahk  
 Phase -- wek, wek-tor  
 Phase amplifier -- wek-ashenayek  
 Phase coil inverter -- wek-pakuv-abomesayek  
 Phase decompiler -- wek-satravilayek  
 Phase discriminator -- wek-sapa'shayek  
 Phase modulator -- wek-nakihtilayek  
 Phase shift -- wek-izaya  
 Phase-conjugate graviton beam -- wek-terauk sesh'gal-zehlek  
 Phase-diverted carrier wave -- wek-mutauk lesh-pral  
 Phaser -- wek-zehlek  
 Phaser bank -- wek-zehlek-kutra  
 Phaser cannon -- wek-zehlek-thorshun  
 Phaser coil -- wek-zehlek-pakuv  
 Phaser power pack -- tepul-vel t'wek-zehlek  
 Phaser rifle -- kar-wek-zehlek  
 Phenomenon -- stivan  
 Philosophy -- ven-dol-tar (anc.)  
 Phlebectomy -- snem t'os-khaf-mev  
 Phlebitis -- yonshaya t'os-khaf-mev  
 Phlebotomy -- tu'asha t'os-khaf-mev  
 Phlegm -- esh-prash  
 Phloem -- si-tin t'lap-vukhut  
 Phosphorescence -- haf-ha'tanaya  
 Phosphorus -- yon-tukh  
 Photalgia -- ugel'es-bezhun-kusut  
 Photograph (n.) -- ha'gel-bikuv  
 Photographer -- ha'gel-tanafsu  
 Photography -- ha'gel-tanaf  
 Photon -- ha'gal  
 Photon grenade -- ha'gal-thorshek  
 Photon torpedo (PhoTorp) -- ha'gal-lushun  
 Photon torpedo bay -- ha'gal-lushun-sutauk  
 Photon torpedo launcher -- ha'gal-lushun-spusayek  
 Photon torpedo tube -- ha'gal-lushun-mev  
 Photoperiod -- ha'gel-wak-krus  
 Photoreceptor -- ha'gel-poprahek  
 Photosynthesis -- ha'gel-fereikan  
 Phototaxis -- ha'gel-rubah-dvun  
 Phototroph -- ha'gel-yokulsu  
 Phrase -- zhit-bal  
 Phreatic cycle -- da-nel t'masu-tin  
 Phreatic water -- ne'rak-masu  
 Phrenic nerve -- esh-dvunek-wel  
 Phylogeny -- ha-ves-storaya  
 Physical (adj.) -- tukhik  
 Physician -- hassu  
 Physics -- tor-tal  
 Physiology -- is-lof-tal  
 Phytogeography -- kastik-sagan-tal  
 Phytol -- kas-yar-naliveh

Phytolith -- kastik-guhsh-kov  
 Phytopathology -- kastik-has-tal  
 Phytophagous -- kastik-yokultik  
 Phytoplankton -- masutra-numo-kastik  
 Phytosociology -- kastik-shila-tal  
 Pica -- riyem-yokul-nosh  
 Pick up (v.) -- abrashau  
 Picture -- bikuv  
 Pie chart -- shihvek-besan  
 Piece (n.) -- krus  
 Piedmont (geol.) -- kunel-nen  
 Piedmont glacier -- dvun-le-sumatra t'kunel-nen  
 Piedmont terrace -- nef t'kunel-nen  
 Pierce -- tilau  
 Piezoelectric -- khush-raf  
 Piezoelectric effect -- daya t'khush-raf-tepul  
 Piezoelectricity -- khush-raf-tepul  
 Pigment(ation) -- kurek  
 Pile (n.) -- tuh (heap), nefek (construction)  
 Pile driver -- nefek-mahyeturak  
 Pillow (n.) -- trak  
 Pilosis -- pid-storau-nosh t'isachya  
 Pilot (flyer) -- hashsu  
 Pilus -- isach  
 Pinch-out (geol.) -- tin-spoh  
 Pineal gland -- sofar-pi'nafek  
 Pingo (geol.) -- le-suma-kunel  
 Pink -- faf-kur  
 Pinna -- si-kaluk  
 Pinnacle (geol.) -- kov-suk'fek  
 Pinnate -- patik  
 Pipe -- mev  
 Pistol -- el'ru-pohshayek (TGV), el'ru-pohshek (MGV)  
 Piston -- kwit-patam  
 Pitchblende -- nesh-shu-kov  
 Pith -- pi'fek-svitan-nalatra  
 Pituitary gland -- dau-tukh-pi'nafek  
 Pivot (n.) -- da-sfek  
 Place -- shi; shita  
 Placebo -- katek  
 Placebo effect -- katek-daya  
 Placenta -- flutash (anc.)  
 Placer (geol.) -- ek'tukh-titaya  
 Plain (n.) -- eiktra  
 Plan -- dotor (n.), dotoran (v.); torbesan (n., architecture)  
 Planar distance -- pa'ashtra-ir  
 Planar graph -- pa'ashtra-besan  
 Planar point -- pa'ashtra-sfek  
 Planation -- eiktra-skrashaya  
 Plane (geom.) -- pa'ashtra  
 Plane curve -- pa'ashtra-tsa  
 Plane division -- pa'ashtra-dahsaya  
 Plane geometry -- pa'ashtra-khlop-thonik su'us-ek'tal

Planet -- ek'tra  
 Planetarium -- shi'yel-gluvekh  
 Planetfall hatch -- ek'tra-thro-svep  
 Planetfall ramp -- ek'tra-thro-yut  
 Planetology -- vath-ek'tra-tal  
 Plankton (general term) -- masutraik numo-ha-vel  
 Plant -- kastik; kastkau  
 Plantar reflex -- lad-tvisek  
 Plasma -- bosh-khaf-masu (med.); snazh(-tukh) (physics)  
 Plasma cell -- khaf-masu-nala  
 Plasma conductor -- snazh-spayek  
 Plasma conduit -- snazh-mev  
 Plasma display subsystem -- ne-torektra t'snazh-gluvaya  
 Plasma distribution manifold -- wehk-vel t'snazh-sagan  
 Plasma injector -- snazh-vipohshayek  
 Plasma intercooler safeties -- ek'maneklar t'snazh-tvi-samuyek  
 Plasma modulator -- snazh-nakihtilayek  
 Plasma protein -- khaf-masu-ketek  
 Plasma surge -- snazh-tral  
 Plasma transfer conduit -- snazh-shan-mev  
 Plasma warhead -- snazh-thorsh-tam  
 Plasmacytoma -- rasahtra t'khaf-masu-nalalar  
 Plate (n.) -- math (dish); kovtra (geol.)  
 Plate (v.) -- slau-tor  
 Plate boundary -- ragel-zehl t'kovtralar  
 Plateau -- pasutra  
 Platelet -- vihk-nala  
 Platform -- skaf  
 Plating -- slaun  
 Platinum -- taluhk-tukh  
 Play (v.) -- mavau  
 Playa (geol.) -- eshikh-eiktra  
 Please (v.) -- sanoj (anc.)  
 Pleasure -- sanosh (anc.)  
 Plesiomorphic -- os-shidik  
 Plethora -- (pid-)mau-tan  
 Pleura -- tuf-nala-tin  
 Pleurisy -- yonshaya t'tuf-nala-tin  
 Plica -- (nalatra-)heshan  
 Plicate -- heshaik  
 Plot (v.) -- besau  
 Plotter (device) -- besayek  
 Plural (n.) -- wehu  
 Plus -- eh, heh  
 Plus-or-minus (math.) -- teni-heh  
 Pluton (geol.) -- glu-zul-koval  
 Plutonium -- isbad-tukh  
 Pluvial -- sov-masupik  
 Pneumonectomy -- eshaf-snem  
 Pneumonia -- eshaf-yonshaya  
 Pod -- tvi'haf  
 Poikilotherm -- si-falek-aushfa  
 Point -- sfek; sfekau

Point circle -- sfek-da-kuv  
 Point out -- sasfekau  
 Point-line distance -- sfek-zehl-ir  
 Point-plane distance -- sfek-pa'ashtra-ir  
 Point-point distance -- sfek-sfek-ir  
 Pointer (n.) -- elek (like a clock hand), lum (like a needle)  
 Poison -- gisam  
 Polar angle -- na-vulu  
 Polar circle -- na-da-kuv  
 Polar coordinates -- na-shi-kethellar  
 Polarity -- narak'es  
 Polarize -- narakau  
 Polaron -- na'gal  
 Polaron emitter -- na'gal-sayek  
 Polaron field -- na'gal-vunai  
 Pole (physics, etc.) -- na  
 Pole (rod) -- fek  
 Pollen -- kas-sa-nei  
 Pollen sac -- sa'haf t'kas-sa-nei  
 Pollination -- kas-vikantaya  
 Pollute -- flau  
 Pollution -- flaya  
 Polonium -- yush-tukh  
 Polygon -- wehk-vla  
 Polyhedron -- wehk-muk  
 Polynomial -- wehk-zhil  
 Polysaccharide -- wehk-slortra-tukh  
 Polyunsaturated fat -- weht-ribosh-thel'a  
 Pond -- muzh  
 Pons -- mesut  
 Ponytail -- isacharr  
 Pool (car, gene, etc.) -- patra  
 Populace -- sutra  
 Pore (med.) -- wadi-sharu  
 Porphyry -- khush-zul-kov  
 Port -- (ter)svep (access); (pauk-)krani (window)  
 Portable -- leshan-, leshanik  
 Portable force field generator -- leshanik fosh-vunai-ferek  
 Portable phase discriminator -- leshanik wek-sapa'shayek  
 Position (n.) -- shul  
 Positive (polarity) -- a'rak  
 Positive charge -- a'rak-falun  
 Positive ion -- a'rak-falun-krus  
 Positron -- tehn-u'gal  
 Possess -- ma  
 Possession (ownership) -- mat  
 Possession (thing) -- ma-vel  
 Possible -- tor-yehat  
 Post (n.) -- lehk  
 Postoperative -- po-sharushanik  
 Postpartum -- po-keshtaik  
 Potable -- mon-yehat  
 Potable water -- mon-masu

Potassium -- spoh-tukh  
 Pouch -- sa'haf  
 Pour (v.) -- mukau  
 Powder (n.) -- grazhiv  
 Power (n.) -- tepul  
 Power cell -- tepul-nala  
 Power conduit -- tepul-mev  
 Power converter -- tepul-rushanek  
 Power coupling -- tepul-tersayek  
 Power drain -- tepul-smashaya  
 Power gauge -- tepul-mik-yal  
 Power grid -- tepul-vis  
 Power outlet -- tepul-sek  
 Power plant -- tepul-torvayek  
 Power supply -- tepul-tanilayek  
 Power surge -- tepul-tral  
 Power transfer conduit -- tepul-shan-mev  
 Power trunk -- tepul-terur  
 Prairie -- pseth-yar-eiktra  
 Praise -- krol, krol-tor  
 Prasema (Vulcan "erythema") -- wadi-yar'es s'pi'khaf-mev-eikan  
 Praseocyte ("green blood cell") -- nen-khaf-nala  
 Praseoderma (Vulcan "erythroderma") -- wadi-yar'es-nosh  
 Praseodymium -- breth-tukh  
 Praxeology -- su-torai-tal  
 Pre-fire chamber -- tvi-shal t'fe-pohshaya  
 Precancerous -- fe-rasahtraik  
 Precious -- taluhk  
 Precipitation (meteor.) -- sa-sovaya  
 Precocious -- ten-storauk  
 Pregnancy -- k'kan'es  
 Pregnant -- k'kan  
 Prehistoric -- fe-vesht-varik  
 Premature -- fe-wakik  
 Premature ejaculation -- ten-khrasaya  
 Premature infant -- ten-kan-bu  
 Prenatal -- fe-keshtaik  
 Preoperative -- fe-sharushanik  
 Prepare -- dator  
 Prepare food -- pil-tor  
 Preprandial -- fe-yemik  
 Prepuberty -- fe-vin-storaya  
 Presence -- la'es  
 Present (here) -- la, la'  
 Present, to be -- pulayau  
 Preserve (v.) -- korsau  
 Press (down on) -- hish-tor  
 Pressure (n.) -- ne'hish  
 Pressure control system -- vihish-tash-torektra  
 Pressure point -- ne'hish-sfek  
 Pressure seal -- vihish-fen  
 Pressurization duct -- vihish-mev  
 Pressurization/depressurization system -- vihish-sahish-torektra

Pressurize -- vihish-tor  
 Pretty -- takov (anc.)  
 Prevail -- fakovau  
 Priapism -- kwon-abrun-nosh  
 Primary -- wuhr-, wuhrik; nen-, nenik  
 Primary force field deflector -- nen-sakwitayek t'fosh-vunai  
 Primary hull -- nen-vukh  
 Primary impulse injector -- nen-kwitau-vipohshayek  
 Primary mineral -- wuhr-ek'tukh  
 Primary pigment -- nen-kurek  
 Primary power grid -- nen-tepul-vis  
 Primary security net -- nen-shar-vis  
 Primary structure -- nen-velek  
 Prime (n.) -- nenat  
 Prime number -- nenat-su'us  
 Prime polynomial -- nenat-wehk-zhil  
 Primitive (in form) -- os-shidik  
 Principle -- dvatai  
 Print -- hish, hish-tor  
 Printer -- hishek (device); hishsu (person)  
 Prism -- takurek  
 Privacy -- awek'es  
 Private (adj.) -- awek  
 Private (rank) -- ask'ersu  
 Probability -- yesik'es  
 Probability function -- yesik'es-kek  
 Probable -- yesik  
 Probable error -- yes-lafosh  
 Probe -- nisau, nisaya; nisayek  
 Problem -- wat  
 Process (n.) -- torek  
 Process (v.) -- patorau  
 Processor -- patorayek  
 Proclaim -- afsakau  
 Proctitis -- pekh-vat-yonshaya  
 Proctology -- pekh-vat-tal  
 Proctoscope -- (tvi-)zan-vel t'pekh-vat  
 Produce (v.) -- torvau  
 Producer -- torvayek  
 Product (n.) -- satorvu (result); torvauk (something produced)  
 Production -- torvaya  
 Productive -- torvauk  
 Productivity -- torvauk'es  
 Profession -- ha-yigal  
 Profile (n.) -- ek'tin  
 Progeria -- ten-shakhuvau-nosh  
 Program -- tumau, tumaya; tumak (computer)  
 Programmed, to be -- putumau  
 Project (n.) -- ar'tu (anc.)  
 Project (v.) -- salehm-tor  
 Projection -- salehm  
 Projector -- salehmek  
 Prolapse -- (nafek-)set

Promethium -- thu-tukh  
 Promise -- ugau, ugaya  
 Proof -- skan  
 Propel (v.) -- datau  
 Propelled, to be -- pudatau  
 Propeller -- dayek  
 Property -- veltra  
 Prophet -- fa-wak-glansu  
 Propulsion -- dataya  
 Propulsion system -- datau-torektra  
 Propulsion unit -- datau-kebi  
 Prosper -- smusma  
 Prosperity -- smusma'es  
 Prostate -- pi'nafek t'sa-nei-masu  
 Protactinium -- farek-tukh  
 Protein -- ketek  
 Protomatter -- fu-tukh  
 Proton -- a'gal  
 Prototype -- fu-vel  
 Proud -- yaut  
 Prove -- skan-tor  
 Provide (v.) -- tanilau  
 Proximity -- be'es  
 Proximity alarm -- be'es-vikayek  
 Proximity transceiver -- be'es-sasau-proprahek  
 Pruritis -- drizhaya  
 Pry (v.) -- ihv-tor  
 Psychiatry -- kashkau-tal  
 Psychology -- kloshai-tal  
 Puberty -- vin-storaya  
 Puce -- gahv-yon-kur  
 Puddle (n.) -- pi'muzh  
 Pudendum -- si-guv-krus  
 Pull -- seshau, seshaya  
 Pulmonary artery -- eshik vi-khaf-mev  
 Pulmonary edema -- ritsuri-masu-hoknaya t'eshaf  
 Pulmonary embolism -- eshaf-mev-klotaya  
 Pulmonary vein -- eshik sa-khaf-mev  
 Pulsar -- spol-yel  
 Pulsate (v.) -- gau  
 Pulsation -- gaya  
 Pulse (medical) -- khaf-spol-gaya  
 Pulse (physics) -- sagau, sagaya  
 Pulse generator -- sagau-ferek  
 Pumice -- markau-zul-kov  
 Pump -- spol, spol-tor  
 Punctuate -- pehkamitau  
 Punctuation -- pehkamitaya  
 Pupil -- glan-sharu  
 Pupillary reflex -- glan-sharu-tvisek  
 Purple -- gahv-kur  
 Purpose -- lof  
 Pus -- kuhka

Push -- kwitau, kwitaya  
 Pustule -- kuhku-kad  
 Put (v.) -- shitau  
 Put to death -- tostau  
 Pyemia -- kuhku-khaf-gisaman  
 Pyramid -- rekun  
 Pyroclast -- thorshau-zul-krus  
 Pyroclastic flow -- sposhan-vitush-yumaya  
 Pyroclastic material -- thorshau-zul-tukh  
 Pyroclastic rock -- thorshau-zul-kov  
 Pyrogenesis -- zul-storaya  
 Pyrophobia -- yon-pthak  
 Pyrophyte -- yon-kastik  
 Pyrosis -- skaun-yon  
 Pyruvic acid -- nalesh-sash t'reh-nol-tukh

Quadrant -- shalat  
 Quadratic equation -- dahpul-vo'ihn  
 Quadratic formula -- dahpul-nik-tok  
 Quadratic integral -- dahpul-ketil  
 Quadrilateral (n.) -- keh-vel  
 Quadriplegia -- keh-shivaya  
 Quadruplet -- t'kehsu  
 Quantifier -- nosahek  
 Quantity -- nosahp  
 Quantum evolution -- sposhan-wakrubaya  
 Quantum field -- numen-vunai  
 Quantum flux regulator -- numen-gasu-pakhartayek  
 Quantum matrix -- numen-viskulan  
 Quantum phase inhibitor -- numen-wek-netehnovayek  
 Quantum scanner -- numen-glashayek  
 Quantum speciation -- sposhan-koshtrivaya  
 Quantum torpedo -- numen-lushun  
 Quark -- pihl  
 Quarter (1/4) -- yonuk (anc.)  
 Quarters -- ha-shal  
 Quartet -- kehek  
 Quartz -- kohv-tukh  
 Quasi-sympatric speciation -- sha'ti-dahsau-koshtrivaya  
 Queen -- ko-te'kru  
 Quest -- psthan  
 Question -- deshker, deshkau  
 Quick -- sahris  
 Quicksand -- ne-hal-mazhiv  
 Quiet -- hizhuk  
 Quinone -- natuhekta-tukh  
 Quintet -- kauyek  
 Quintuplet -- t'kausu  
 Quite -- ved  
 Quotient -- dahsau-nosahp

Race (species) -- (ne-)koshtri (anc.)  
 Raceme -- svai-teluk



Radial (adj.) -- azehl-, azehlik  
Radiate -- sau  
Radiation -- saya  
Radiation sickness -- saya-has-mar  
Radiation suit (Radsuit) -- saya-saikhut  
Radiator -- sayek  
Radical (n.) -- sagir (math.); galk (physics)  
Radicle -- ten-mal-gir (botany); wel-gir (anat.)  
Radiculitis -- wel-gir-yonshaya  
Radioactive -- galu-sayuk  
Radioactive decay -- galu-sayuk nehaya  
Radioactivity -- galu-saya'es  
Radiogenic warhead -- sau-thorsh-tam  
Radioisotope -- galu-saya-dahsu  
Radium -- stau-tukh  
Radius -- sakuvu (math., etc.); sik ne-kar-hinek (anat.)  
Radon -- mozh-tukh  
Raft (n.) -- marshak  
Rage -- resha, reshan  
Rain -- sov-masu (n.), sov-mashau (v.)  
Rainbow -- (igen-)kur-kesek  
Raindrop -- sov-masu-thek  
Raise (v.) -- ashenau  
Rake (n.) -- dref  
Ramat detonator -- ramat-thorshayek  
Random -- kafun-, kafunik  
Random distribution -- kafun-sagan  
Random number -- kafun-su'us  
Random variable -- kafun-vuhnayek  
Range (n.) -- eik'es  
Range of motion -- dvunel-eik'es  
Range of tide -- mashen-na-sa  
Rank (n.) -- lan  
Rank insignia -- lan-terseht  
Raphe -- fenul  
Rare -- ritsuri  
Rash (med.) -- kuriht  
Rate -- tav, tav-tor  
Rating -- tavan  
Ratio -- tavat  
Ray -- ha'zehl (light); azehl (math.)  
Razor -- hohl-vel  
Reach (v.) -- pulau  
React -- folau  
Reactance injector -- folau-vipohshayek  
Reaction -- folaya  
Reaction-control system (RCS) -- folau-tash-torektra  
Reaction-control thruster -- folau-tash-kwitek  
Reactive body armor -- folauk vukhut-fo-wein  
Reactor -- folayek  
Reactor core -- folayek-tviyan  
Read -- telv-tor  
Ready -- pok

Real -- yeht  
Real axis -- yeht-da-sfek  
Real number -- yeht-su'us  
Real polynomial -- yeht-wehk-zhil  
Reason (purpose) -- utvau  
Recede -- satrasha  
Receive -- poprah  
Receiver -- poprahek  
Recess (niche) -- sha'ti (anc.)  
Recession -- satrashan  
Recessive gene -- za-tol  
Reciprocal -- meskulan-, meskulanik; meskulan  
Recognize -- naglanshau  
Record (v.) -- vipladau  
Recorder (device) -- vipladayek  
Recorder-marker launch system -- spusau-torektra t'vipladayek-ulidayek  
Rectangle -- gas-vulu-vel  
Rectum -- pekh-vat  
Recycle -- va'ash-da-tor  
Recycling (n.) -- va'ash-da-nel  
Recycling plant -- va'ash-da-nelek  
Red -- yon-kur  
Reduce -- netakidau  
Reduction -- netakidaya  
Reel (n.) -- magu  
Refer -- dzhinau  
Reference -- dzhinaya  
Reflect -- haul-tor  
Reflection -- haulan  
Reflector -- haulek  
Reflex -- tvisek  
Reflux (n.) -- (ritsuri-)pla'yumaya  
Refraction -- ha'zehl-vulaya  
Refresh -- uzshau  
Refrigerator -- samek-mish-vel  
Refueling port -- hal-tukhau-tersvep  
Refuge -- rau-nol (anc.)  
Refugium -- ha-rau-nol  
Regain -- tabakau  
Regard (v.) -- fudau  
Regenerate -- vafer-tor  
Regenerative force field -- vafer-fosh-vunai  
Regenerator -- vaferek  
Region -- shal  
Regolith -- nen-kov-guhsh  
Regular number -- tsuri-su'us  
Regular polygon -- tsuri-wehk-vla  
Regular sequence -- tsuri-zehlanaya  
Regulate -- pakhartau  
Regulator -- pakhartayek  
Regulator gene -- tash-tol  
Reinforce -- fokarikau  
Reinforced concrete -- fokarikal-nok

Relative (person) -- tomasu  
Relay -- gol'dvun-tor; gol'dvunek  
Release -- sadalau, sadalaya  
Relic -- za-vel  
Relict -- hafau-ha-vel  
Relief -- vas  
Relieve -- vas-tor  
Religion -- odva  
Remain -- hafau  
Remainder -- hafayat  
Remember -- vokau  
Remove -- snem-tor  
Rend -- tresahk-tor  
Renew -- uzhou  
Repair (v.) -- teslau  
Repeat -- ashiv-tor  
Replace -- va'prah  
Replicase -- va'asau-zalu  
Replicate -- nel'ashau  
Replication -- nel'ashaya  
Replicator -- nel'ashayek  
Replicator memory core -- kolau-tviyan t'nel'ashayek  
Reply -- kilko, kilko-tor  
Repository -- vat  
Reproduction -- kanashivaya  
Reptile -- ukraluk  
Research -- kla-hil, kla-hil-tor  
Researcher -- kla-hilsu  
Resection -- krus-snem  
Resin -- lap-stan-tukh  
Resist -- tehnau  
Resistance -- tehnaya  
Resistor -- tehnayek  
Resonance -- kusilaya  
Resonance emitter -- kusilau-sayek  
Resonate -- kusilau  
Resonator -- kusilayek  
Respiration -- pa'kizh  
Respiratory arrest -- pa'kizh-pekhaya  
Respiratory failure -- pa'kizh-vravshaya  
Respiratory rate -- pa'kizh-tav  
Respiratory tract -- pa'kizh-ek'ur  
Respond -- kesau  
Response -- kesaya  
Rest -- shom, shom-tor  
Reticulum (med.) -- vistra  
Retina -- glan-nalatra-tin  
Retinal pattern scanner -- nel-dath-glashayek t'glan-nalatra-tin  
Retinitis -- glan-nalatra-yonshaya  
Retrieve -- zaprah  
Return -- fun, fun-tor  
Reverse mutation -- pla'rak-tselaya  
Rhenium -- ahahr-tukh

Rhinitis -- han-yonshaya  
 Rhinorrhea -- han-yumaya  
 Rhizome -- ne-solektra-pi'fek  
 Rhizosphere -- gir-shal  
 Rhodium -- seleya-tukh  
 Rhombododecahedron -- ayayik leh-dah-muk  
 Rhombohedron -- ayayik keh-vla  
 Rhombus -- ayau-keh-vla  
 Rhythm -- farr-dath (anc.)  
 Rib -- bak  
 Ribitol -- kau-nol-naliveh  
 Ribonucleic acid (RNA) -- sash t'wuh-ha-svitan  
 Rich -- don-ka (anc.)  
 Riches -- don-tak (anc.)  
 Ride (v.) -- fau-tor  
 Ridge (n.) -- kov-zehl (geol.); taut  
 Rifle -- kar-pohshayek (TGV), kar-pohshek (MGV)  
 Rift valley -- kovtra-ku-li  
 Rigellian (person) -- Raidzhelsu  
 Right (correct) -- yeht  
 Right (direction) -- gas'rak  
 Right angle -- gas-vulu  
 Right triangle -- gas-vuluyik reh-vla  
 Rigid -- stegel  
 Rigidity -- stegel'es  
 Rime -- ihsek-le-suma  
 Ring (n.) -- mokuv (old contraction of "mokev-kuv")  
 Ring (v.) -- kus-tor  
 Ring finger -- dahr-ozh  
 Ring latch -- mokuv-kuhr  
 Rip -- tres, tres-tor  
 Rip into pieces -- tresahk-tor  
 Ripe -- piyah  
 Ripen -- piyahtau  
 Ripening -- piyahtaya  
 Rise -- shen, she-tor  
 Ritual -- ho-rah (anc.)  
 River -- pilash (anc.)  
 Road -- fau-yut  
 Robe -- pelal  
 Rock -- kov; kov-tukh  
 Rocket (n.) -- yon-hashek  
 Rod -- fek  
 Roll (v.) -- padukau  
 Romulan -- Rihansu  
 Roof -- kamu  
 Room (chamber) -- tvi-shal  
 Room (space) -- ret  
 Root -- gir  
 Root pressure -- gir-ne'hish  
 Rope -- man-elakh  
 Rot -- nehau, nehaya  
 Rotate -- da-tor

Rotation -- dan  
Rotor -- pi'dayek  
Round -- pauk  
Row -- zehl (n.); fel-tor (v.)  
Rowboat -- fel-hali  
Rub -- tetau, tetaya  
Rubbish -- guhsh  
Rubidium -- gol-tukh  
Ruby (n.) -- yon-ek'zer  
Rule (law) -- to-go (anc.)  
Rule (v.) -- khau  
Rule over -- abukhau  
Run (v.) -- sahr-tor  
Runner (botany) -- sak-fek  
Rust -- zhar, zhar-tor  
Ruthenium -- soral-tukh  
Rutherfordium -- leh-tukh

**"S" to "Z"****ZHIT-FEIM TERAYA-EINGELSU - GOL-VUHLKANSU****>S< na' >Z<**

Sabkha (geol.) -- alemtra  
 Sac -- sa'haf (anc.)  
 Saccharide -- slotra-tukh  
 Saccule -- pi'sa'haf  
 Sack -- sa'haf (anc.)  
 Sacral vertebra -- pla'krus-hinek  
 Safety -- ek'man'es; ek'manek  
 Sail (n.) -- mashalo-thalv  
 Sail (v.) -- masu-halovau (TGV), mashalovau (MGV)  
 Sailor -- masusu  
 Salad -- yarmok  
 Saline -- alemik  
 Saline soil -- alem-solek  
 Salinity -- alem'es  
 Saliva -- ru'lut-masu (TGV), ru'lumu (MGV)  
 Salt -- alem  
 Salt depletion -- alem-sis  
 Salt lake -- alem-suk'muzh  
 Salt marsh -- alem-masu-kastra  
 Salt stress -- alem-hishel  
 Saltwater (n.) -- alem-masu  
 Salvation (spiritual) -- korsovaya  
 Samarium -- bali-tukh  
 Same -- ka  
 Sample (n.) -- li-fal (anc.)  
 Sand(s) -- mazhiv  
 Sandbar -- mazhiv-zehl  
 Sandstone -- mazhiv-kov  
 Sandstorm -- mazhiv-sahriv  
 Sap (botany) -- kas-khaf  
 Sapling -- kan-lap  
 Sapphire (n.) -- pla-khush  
 Saprophage -- tevanu-ha-yokulsu  
 Sarcoid -- kahmtraik  
 Sarcoma -- kahm-rasahtra  
 Satellite -- sutor-aikum (artificial), malat-aikum (natural)  
 Saturate -- vi-mashau  
 Saturated fat -- vibosh-thel'a  
 Saturation -- vi-mashaya  
 Satyriasis -- risa-guv-aitlun  
 Sauce -- mun  
 Saucer -- (ne-)mathra  
 Saucer section -- mathra-krus  
 Saucer separation -- mathra-dahshaya  
 Sauté (v.) -- the'polau  
 Savannah -- yartra  
 Save (v.) -- korsau

Save (by means of) -- korseiven  
 Save (spiritually) -- korsovau  
 Saw (n.) -- zuneshek  
 Saxicolous -- fi-kov-hatik  
 Say -- tar, tar-tor  
 Saying -- taran  
 Scab (n.) -- net  
 Scale (flake, skin, etc.) -- wef  
 Scale (measurement) -- mathu  
 Scalene triangle -- rika-reh-vla  
 Scalenohedron -- rika-reh-vlayik wehk-muk  
 Scalp -- patam-ek'wadi  
 Scan (v.) -- glashau  
 Scan field selector -- glashau-vunai-dvelek  
 Scan mode selector -- glashau-nuk-dvelek  
 Scan range selector -- glashau-eik'es-dvelek  
 Scanner -- glashayek  
 Scandium -- sak-tukh  
 Scapula -- tipan-hinek  
 Scar (n.) -- ulidar  
 Scarlet -- ug'yon-kur  
 Scavenger -- tevanu-yokulsu  
 Schism -- sadahshaya  
 School (n.) -- shi'oren  
 Sciaphilic -- duvek-ashauk  
 Sciatic nerve -- nen-mal-wel  
 Science -- ek'tal  
 Science tricorder -- ek'tal-reh-vipladayek  
 Scientific -- tal-, talik  
 Scientist -- ek'talsu  
 Sciophyte -- duvek-kastik  
 Sclera -- bezhun-wan  
 Sclerosis -- lerash-nalatra-nosh  
 Scoria -- nala-zul-kov  
 Scramble (v.) -- parish-tor  
 Scrambled eggs -- parish-yu-murlar  
 Scrap -- moguhsh, moguhshau  
 Scrape (v.) -- theshau --  
 Scream (v.) -- shei  
 Scree -- kov-guhsh  
 Screen (display) -- gluvayek  
 Screen (shield) -- sananek  
 Scrotum -- sakal-sa'haf  
 Sculpt -- shid-shuk-tor  
 Sculptor -- shid-tanafsu  
 Sculpture -- shid-tanaf; shid-vel  
 Scythe (n.) -- urokesor  
 Sea -- masutra  
 Sea breeze -- masutra-pi'salan  
 Sea cliff -- masutra-menal  
 Seaborgium -- leh-dah-tukh  
 Seafloor -- masutra-tol  
 Seal -- fen, fen-tor

Seam -- fenul  
 Seaman -- masusu  
 Seamount -- masutra-kunel  
 Seamster, Seamstress -- ogsu  
 Search -- pstha, psthan  
 Season -- tevun-yonuk  
 Seat (chair) -- ku-san (anc.)  
 Seaworthy -- masu(tra)-ek'maik  
 Sebaceous cyst -- wadi-thel'asu-shaf  
 Sebaceous gland -- wadi-thel'asu-pi'nafek  
 Sebum -- wadi-thel'asu  
 Secant -- weht-sfek-aus  
 Secondary -- dahr-, dahrik  
 Secondary command processor -- dahr-khartau-patorayek  
 Secondary hull -- dahr-vukh  
 Secondary mineral -- dahr-ek'tukh  
 Secondary structure -- thurai-velek  
 Secret (adj.) -- tsatik  
 Section -- krus; fna-krus  
 Sector -- krusat  
 Secure (v.) -- shar-tor  
 Security -- shar'es  
 Security armor -- shar-fo-wein  
 Security code -- shar-kiht  
 Security scan -- shar-glashaya  
 Sediment -- ne'ti-tukh  
 Sedimentary rock -- ne'ti-kov  
 See -- gla-tor  
 Seed -- nei  
 Segment -- krus  
 Seismograph -- solektra-hutaya-besan  
 Seismology -- solektra-hutaya-tal  
 Seismometer -- solektra-hutaya-thonek  
 Seizure -- mahai  
 Select -- dvel-tor  
 Selection -- dvel  
 Selection panel -- dvel-math  
 Selector -- dvelek  
 Selenium -- volak-tukh  
 Selenology -- aikum-tal  
 Self -- shai  
 Self-control -- shaula  
 Self-destruct (n.) -- shai-vashaya  
 Self-destruct system -- shai-vashau-torektra  
 Self-fertilization -- shai-vikantaya  
 Self-pollination -- shai-kas-vikantaya  
 Self-replicating mine -- shai-nel'ashauk ip-thorshek  
 Self-sustaining holo-emitter -- shai-potunik reh-bikuv-sayek  
 Sell -- makau  
 Send -- satau  
 Semen -- sa-nei-masu  
 Semicircle -- ulef-da-kuv  
 Seminal vesicle -- pi'nafek t'sa-nei-masu



Semiferous tubule -- sa-nei-pi'mev  
 Sensation -- kashan  
 Sense (n.) -- kash-ral  
 Sensitize -- kashovau  
 Sensor -- kashek  
 Sensor array -- kashek-zehlaya  
 Sensor feed -- kashek-yemek  
 Sensor focusing coil -- kashek-thakau-pakuv  
 Sensory nerve -- kash-ral-wel  
 Sentence (grammatical) -- zhit-bal  
 Sepal -- svai-mor  
 Separate (adj.) -- k'wuhli; dahshauk  
 Separate (v.) -- dahshau  
 Separation -- dahshaya  
 Septagon -- steh-vla  
 Septahedron -- steh-muk  
 Septet -- stehek  
 Septicemia -- khaf-gisaman  
 Septum -- temok  
 Septuplet -- t'stehsu  
 Sequence -- zehlanau, zehlanaya  
 Sergeant -- (wuh-)traveksu  
 Sergeant, Master -- dah-traveksu  
 Sergeant Major -- reh-traveksu  
 Series -- weizehl  
 Serrated -- zudlar-shidik  
 Serum (anat.) -- nen-khaf-masu  
 Servant -- dvinsu  
 Serve (v.) -- dvin-tor  
 Service (n.) -- dvin  
 Sesamoid bone -- mal-nef-hinek  
 Set (n.) -- eku  
 Set (v.) -- tev-tor (as the sun); dvolau (adjust)  
 Sew -- og-tor  
 Sewage -- guhsh-masu  
 Sewer main -- guhsh-masu-ek'mev  
 Sewing machine -- og-vel  
 Sex (gender) -- guv  
 Sex chromosome -- guv-toltra  
 Sex hormone -- guv-dau-tukh  
 Sextet -- shehek  
 Sextuplet -- t'shehsu  
 Sexual discrimination -- guv-sakathilaya  
 Sexual harassment -- guv-smertaya  
 Sexual reproduction -- guv-kanashivaya  
 Shade (n.) -- duvek  
 Shadow (n.) -- duv  
 Shake (v.) -- hutau  
 Shale -- tin-kov  
 Shall -- dungau(-)  
 Shallow -- gan  
 Shame (n.) -- mesh  
 Shape (n.) -- shid

Sharp (edge) -- nas-, nasik  
 Shatter -- zarahk-tor  
 Shave -- hohl-tor  
 Shear (meteo., aero.) -- eitau, eitaya  
 Shed (v.) -- foshuhl (anc.)  
 Shedding (n.) -- fosha  
 Sheet -- thalv (anc.)  
 Shelf -- nef  
 Shell -- fo (anc.)  
 Shelter -- rau-nol, rau-tor  
 Shield (n.) -- fo-dan (anc.)  
 Shield emitter -- fo-dan-sayek  
 Shielding -- fo-danan  
 Shift -- izau, izaya  
 Shifter -- izayek  
 Shin -- ne-mal  
 Shin bone -- ne-mal-hinek  
 Shirt -- sav'el  
 Shoal -- ne'ti-hoknaya  
 Shock (med.) -- kolaya  
 Shoe (n.) -- ash'el  
 Shoot (v.) -- pohshau  
 Shop (v.) -- klepovau  
 Shore (n.) -- gef  
 Shoreline -- gef-zehl  
 Short -- pen  
 Shortage -- penak  
 Shorten -- pen-tor  
 Shot -- pohshaya  
 Shoulder (n.) -- tipan  
 Shoulder blade -- tipan-hinek  
 Shout -- saul, saul-tor  
 Shovel (n.) -- hilek  
 Show -- gluvau, gluvaya  
 Shower (n.) -- mashulayek  
 Shred -- tresahk-tor  
 Shredder -- tresahk-vel  
 Shrub -- labah  
 Shut -- ikap-tor  
 Shutter (n.) -- fo-wein (window, etc.); ha'wein (camera)  
 Shuttle(craft) -- shan-hali  
 Shuttle(craft) bay -- shan-hali-sutauk  
 Shuttle(craft) hangar -- hali-kel t'shan-hali  
 Shy -- fusik  
 Sibling -- kaisu  
 Sick -- has-bosh  
 Sickbay -- has-sutauk  
 Sickle -- el'urokesor  
 Sickness -- has-mar  
 Side (n.) -- vla  
 Sight -- glan  
 Sight rule (surveying) -- dah-glanekik pa'ash-pasu-skothonek  
 Sign (n.) -- glat

Signal -- glantokau, glantokaya  
 Signal beacon -- glantokau-glaribek  
 Signal generator -- glantokau-ferek  
 Signal subprocessor -- glantokau-ne-patorayek  
 Silent -- ralash-fam  
 Silica -- mazhu  
 Silicon -- mazhiv-tukh  
 Sill -- shal-zul-kov (geol.); sku (window)  
 Silt (n.) -- kitek  
 Silver (color) -- haul-kur  
 Silver (metal) -- haul-tukh  
 Similar -- kahkwa (anc.)  
 Simple -- velik  
 Sine -- vulu-tavat-zes  
 Sinew -- dvunek-tersayek  
 Sing (v.) -- uralau  
 Singer -- uralausu  
 Sink (v.) -- ne'hal-tor  
 Sir -- osu  
 Sirocco -- eshikh-salan  
 Sister -- ko-kai  
 Sit (v.) -- ku-tor  
 Site (n.) -- shi  
 Site-to-site transporter -- shi-shi-ifisek  
 Size (n.) -- suk'es  
 Skeletal muscle -- hinek-(teraya-)dvunek  
 Skeleton -- hinek-teraya  
 Sketch -- lubesan, lubes-tor  
 Ski (v.) -- izh-hal-tor  
 Skill -- renkup'es  
 Skin -- wadi  
 Skin cancer -- wadi-rasahtra  
 Skull -- grat  
 Sky -- igen  
 Skylight -- ha'gel-razh  
 Slack water -- mashen-shom  
 Slant -- vul, vul-tor  
 Slate -- kitau-kov  
 Slave (n.) -- kafeh  
 Sleep -- yuk, yuk-tor  
 Slide (v.) -- zish-tor  
 Slime -- shuhk  
 Slip -- trel, trel-tor  
 Slipstream drive -- trel-pilash-yeturek  
 Slope -- vul, vul-tor  
 Slow -- vohris (anc.)  
 Small -- pi'  
 Smart -- klon  
 Smell (v.) -- fnish-tor  
 Smith (n.) -- zhukusu  
 Smoke (n.) -- vuzh  
 Smokestack -- vuzh-mev  
 Smooth muscle -- shati-dvunek

Snake -- oluhk (anc.)  
Sneeze (n.) -- uhfuk  
Snow -- izh, izhau  
Snow level -- izh-vok  
Snowstorm -- izh-sahriv  
So -- dom; ni  
Social (adj.) -- shilaik  
Society -- shila'es  
Sociology -- shila-tal  
Sock (stocking) -- ash'ai (ancient contraction of "ash-sai")  
Sodium -- alem-tukh  
Soft -- mos  
Soil -- solek  
Soil horizon -- ragel-zehl t'solek  
Soil profile -- solek-ek'tin  
Solar activity -- yel-toran  
Solar constant -- yel-ek'kat  
Solar eclipse -- yel-ek'duv  
Solar flare -- yel-pohshaya  
Solar prominence -- yel-sposhan  
Solar system -- yel-pi'maat  
Soldier -- ask'ersu  
Sole (foot) -- lad  
Solid -- huht-, huhtik; huht  
Solitude -- awek'es  
Solution -- kilkaya (answer); meil-masu (chem.)  
Solve -- kilkau  
Somatic cell -- tsuri-nala  
Somatic mutation -- tsuri-nala-tselaya  
Some -- ein  
Someone -- ein-veh  
Somewhere -- ein-wilat  
Son -- sa-fu  
Sonic -- ralashik  
Sonic shower -- ralash-mashulayek  
Soon -- ak  
Sore (n.) -- sival  
Sort (v.) -- wihfelau  
Soul -- katra  
Sound -- ralash  
Sounding sand -- ralash-mazhiv  
Soup -- shur  
Sour -- sfith  
Source -- shu-pal (anc.)  
South -- khu'rak  
Space -- ret (room); stukh (outer space)  
Spaceship -- stukh-hali  
Spacesuit -- stukh-saikhut  
Spade (n.) -- ash'ya-hilek  
Span (n.) -- pul-vath  
Spark -- kil, kil-tor  
Spasm (n.) -- runev  
Spawning -- yu-mur-titaya

Speak -- stariben  
 Speaker (device) -- saralashék  
 Spear (n.) -- tilek  
 Speciation -- koshrivaya  
 Species -- koshtri  
 Species longevity -- koshtri-difan'es  
 Spectrum -- kurtra  
 Speech -- starun  
 Speed (n.) -- threshan  
 Speleology -- tauk-tal  
 Speleothem -- tauk-titaya  
 Spermatozoon -- sa-nei  
 Sphenoid -- shihvek-vel  
 Sphere -- ek'kal  
 Spherical coordinates -- ek'kal-shi-kethellar  
 Spherical geometry -- ek'kal-khlop-thonik su'us-ek'tal  
 Spherical trigonometry -- ek'kal-reh-vlupik su'us-ek'tal  
 Spice -- bar-kas (anc.)  
 Spin -- padan, pada-tor (rotate); rada-tor (web, yarn, etc.)  
 Spinal canal -- plat-ur  
 Spinal column -- plat  
 Spinal cord -- plat-wel-elakh  
 Spinal nerve -- plat-wel  
 Spindle (n.) -- magu  
 Spine -- plat  
 Spiral (n.) -- kulan  
 Spirit (ghost) -- tam'a (anc.)  
 Spirit (soul) -- katra  
 Split open -- treshau  
 Spleen -- khaf-nafek  
 Splenectomy -- khaf-nafek-snem  
 Splenitis -- khaf-nafek-yonshaya  
 Split -- thresh, thresh-tor  
 Spontaneous mutation -- shai-tselaya  
 Spoon (n.) -- floku  
 Spore -- rikas-sa-nei  
 Sport (n.) -- torvukh  
 Sprain (n.) -- nauk  
 Spread (v.) -- sak-tor  
 Spring (n.) -- mopakuv (metal coil); sayumak (water)  
 Spring (season) -- Sikar (colloquial); kastik-wak (scientific)  
 Spring equinox -- ka-wak-gad t'kastik-wak  
 Spring tide -- dan-pid-mashen  
 Sprout -- tehk, tehkau  
 Sprout up -- satekhau  
 Spume (n.) -- puhsh  
 Spy -- zamasu, zama-tor  
 Squander (v.) -- sis-tor  
 Square (n.) -- keh-vla (figure); shai'us (number)  
 Square (v.) -- shai-wehkovau  
 Square root -- shai'us-gir  
 Squeeze (v.) -- lerakhovau  
 Stability -- tihet'es

Stabilize -- tihetilau  
 Stabilizer -- tihetilayek  
 Stable (condition) -- tihet  
 Stack (n.) -- tuh  
 Staff (n.) -- fek (rod); suyu (crew, faculty)  
 Stage (platform) -- skaf  
 Stain -- kurau, kuraya  
 Stairs -- kaiden  
 Stairwell -- kaiden-ur  
 Stalactite -- ne-to'ovaya  
 Stalagmite -- abru-to'ovaya  
 Stamen -- kas-sa-krus  
 Stance -- laman  
 Stand (on one's feet, etc.) -- lamok (n.), lam-tor (v.)  
 Stand (for, in place of, etc.) -- noshau  
 Star -- yel  
 Starch (n.) -- slok  
 Stare -- nantau, nantaya  
 Starfleet -- Yel-Halitra  
 Starliner -- yel-su-yata  
 Starship -- yel-hali  
 Start -- palikau, palikaya  
 Starter -- palikayek  
 Stasis -- vitaya  
 Stasis tube -- vitau-mev  
 Statement -- star-krus  
 Static (adj.) -- vit-, vitik  
 Station (n.) -- wurzel  
 Statue -- sukhlop  
 Status -- nosh  
 Status board -- nosh-math  
 Stay behind -- hafau  
 Steal (v.) -- vazgau  
 Steam (n.) -- zhis  
 Steel (n.) -- pishek (old contraction of "pid-shek")  
 Steer (v.) -- dakharau  
 Stellar cartography -- besaya t'yellar  
 Stellate -- yel-shidik  
 Stem (botany) -- kas-fek  
 Stenosis -- ritsuri-wonilaun  
 Step -- ash, ash-tor; ashef  
 Steppe -- psethtra  
 Sterile -- ek'puyik  
 Sterilize -- ek'pu-tor  
 Stern (ship) -- harr-krus  
 Sternum -- tuf-hinek  
 Stick (v.) -- terpau  
 Sticky -- terpauk  
 Stiff (adj.) -- stegel(-)  
 Stigma -- gubi  
 Stimulate -- kastorilau  
 Stimulation -- kastorilaya  
 Stimulus -- kastoran

Sting -- rakus, rakusau  
 Stink -- vlau, vlau-tor  
 Stipule -- mor-nen-vel  
 Stitch (med.) -- terog, terog-tor  
 Stitch (sewing) -- og, og-tor  
 Stock (botany) -- fek  
 Stolon -- sak-fek  
 Stoma -- kas-sharu (botany); skonn-sharu (med.)  
 Stomach -- skaun-sa'haf  
 Stone -- kov; kov-tukh  
 Stonecarver -- kov-skrimsu  
 Stop -- pehkau, pehkaya  
 Storage compartment -- tsorayek  
 Store (save/savings) -- tsorau, tsoraya  
 Store (shop) -- mahr-kel  
 Storm -- sahriv  
 Storm surge -- sahriv-tral  
 Story -- var  
 Strabisimus -- rizehlik bezhun-nosh  
 Straight -- zeh-, zehik  
 Straighten -- zeh-tor  
 Strain -- his, his-tor  
 Strait -- masu-naf  
 Strange -- flekh  
 Stranger (n.) -- ri-fainusu  
 Strap (n.) -- zhel  
 Stratification (geol.) -- (kov-)tintaya  
 Stratocumulus (cloud) -- tin-tra-wan  
 Stratosphere -- pid-sov-ek'shal  
 Stratum (geol.) -- kov-tin  
 Stratus (cloud) -- tin-wan  
 Streak -- wesh, wesh-tor  
 Stream (n.) -- pilash (water); salash (physics)  
 Strength -- karik'es  
 Strengthen -- karik-tor  
 Stress (n.) -- hishel  
 Stretch -- sakadau, sakadaya  
 Striated muscle -- slah-dvunek  
 Striation -- zehl-ulidar  
 Strict -- wonil  
 Stricture -- mev-wonilaun  
 Strike -- kwul, kwul-tor  
 Strip away -- fleitau  
 Stroke (med.) -- shad-kisheya  
 Strong -- karik  
 Strontium -- psal-tukh  
 Structural integrity field (SIF) -- kel-ket'es-vunai  
 Structural support -- kel-nenikaya  
 Structure -- kel (building); velek (form)  
 Stubborn -- lautuv (anc.)  
 Student -- orensu  
 Study (v.) -- orenau  
 Stuff (n.) -- tukh

Sturdy -- batai  
 Subatomic disrupter -- ne-galu-feshelek  
 Subcutaneous -- ne-wadiyik  
 Subcutaneous transponder -- ne-wadi-vavayek  
 Subduction -- kovtra-ne-dvun  
 Subduction zone -- ne-dvun-shal  
 Subdue -- nessau  
 Sublittoral zone -- glu-gef-shal  
 Submarine (n.) -- ne-masu-hali  
 Submarine canyon -- (masutra-)glu-spathel  
 Submarine plateau -- (masutra-)glu-pasutra  
 Subprocessor -- ne-patorayek  
 Subroutine (computer) -- ne-faikhartek  
 Subset -- krus-eku  
 Subspace -- ne-stukh  
 Subspace communications -- ne-stukh-sviribaya  
 Subspace communicator -- ne-stukh-sviribayek  
 Subspace field grid -- vunai-vis t'ne-stukh  
 Subspace transceiver array -- sasau-proprah-zehlaya t'ne-stukh  
 Subspace uplink -- ne-stukh-abrunaf  
 Subspace waveguide -- pral-yut t'ne-stukh  
 Subspecies -- ne-koshtri  
 Subtract -- sanem-tor  
 Subtraction -- saneman  
 Succeed -- navau  
 Success -- navun  
 Sucrase -- potau-slor-zalu  
 Sucrose -- potau-slor-tukh  
 Sugar -- slor-tukh  
 Sulfur -- vlau-tukh  
 Sum -- hau-ov (anc.)  
 Summer (season) -- Belaar (colloquial); falek-wak (scientific)  
 Summit -- dan-pid-sfek  
 Sun -- yel  
 Sunburn (n.) -- yel-wadi-yontaya  
 Sunrise -- gad-shen  
 Sunset -- gad-tevan  
 Sunspot -- yel-ulidar  
 Superconductor -- pid-spayek  
 Supernova (n.) -- khrash-yel  
 Supersaturation -- dan-vi-mashaya  
 Supper -- mu'yor-yem  
 Supply (v.) -- tanilau  
 Support -- nenikau, nenikaya  
 Support pylon -- nenikau-tersau-vel  
 Suppress -- nelau  
 Suppression -- nelaya  
 Surf (zone) -- pral-shal  
 Surface (n.) -- skonn  
 Surge -- tral, tral-tor  
 Surge arrestor -- tral-pehkayek  
 Surgeon -- sharushsu  
 Surgery -- sharushan



Surgical tissue regenerator -- sharushan-nalatra-vaferek  
 Surpass -- namautau  
 Surprise (v.) -- ak'wikmun (anc.)  
 Surround -- vikuvau  
 Survey -- skothon, skothon-tor  
 Survival -- rishan  
 Survival suit -- rishan-saikhut  
 Survive -- rish-tor  
 Sustain -- potun-tor  
 Suture (n.) -- terog-elakh (material); fenul (seam); terog (stitch)  
 Suture (v.) -- terog-tor  
 Swallow (v.) -- vinem-tor  
 Swamp (n.) -- flash  
 Swarm -- bish, bishau  
 Swash -- na-yumaya  
 Swash mark -- na-yumaya-zehl  
 Sweat -- wadashau, wadashaya  
 Sweep -- fnashtau, fnashtaya  
 Sweet -- slor  
 Swell (v.) -- puv-tor  
 Swelling -- puv  
 Swim -- mahal-tor (old contraction of "masu-hal-tor")  
 Switch (device) -- dvelek  
 Swollen -- puv-, puvik  
 Sword -- shek  
 Survive -- rish-tor  
 Symbiont -- haterkadu  
 Symbiosis -- haterkadaya  
 Symbol -- seh tebuhk  
 Symmetric -- talikalik  
 Symmetry -- talikal  
 Sympatric -- hateretik  
 Synapse -- wel-haf  
 Synaptic stimulator -- wel-haf-kastorilayek  
 Syncline -- ne-vul  
 Syndrome -- kath-vuk (anc.)  
 Synecology -- su-malat-tal  
 Synovial fluid -- lesek-masu  
 Synovial joint -- el-lesek  
 Synovial membrane -- nalatra-tin t'el-lesek  
 Synthesis -- fereikan  
 Synthesize -- fereik-tor  
 Synthesizer -- fereikek  
 Synthetic -- sutorik  
 Syringe -- vipohtek  
 System -- torektra  
 Systemic (med.) -- ek'vukhutik

Table -- pasu  
 Tablemount -- masutra-pa'ash-kunel  
 Tachycardia -- sahri-threshan-nosh t'khaf-spol-tav  
 Tachyon -- sahr'gal  
 Tachyon beam -- sahr'gal-zehl

Tachyon field -- sahr'gal-vunai  
 Tachyon scanner -- sahr'gal-glashayek  
 Tachypnea -- sahri-threshan-eshan  
 Tachytely -- sahr-wakrubaya  
 Tact -- it  
 Tactful -- it-yehat  
 Tactless -- it-fam  
 Taiga -- samek-laptra  
 Tail -- harr  
 Take (v.) -- nem-tor  
 Tale -- var  
 Talk (v.) -- variben  
 Tall -- ha-vol (anc.)  
 Talon -- tsa-spahk  
 Talus -- mal-nik-hinek (med.); menal-guhsh(-tukh) (geol.)  
 Talus-creep -- menal-guhsh-dvun  
 Tame -- fnau, fnau-tor  
 Tan (color) -- mazhiv-kur  
 Tangent (n.) -- wuh-sfek-vel  
 Tank (storage) -- tuhlek  
 Tannin -- kas-khav-kurek  
 Tantalum -- t'khut-tukh  
 Tap (faucet) -- sayumak  
 Tapetum -- vek t'rikas-sa-nei  
 Taphephobia -- k'ha-visolektau-ptak  
 Tar (n.) -- leralmin (TGV), ulm (MGV)  
 Tar pit -- leralmin-razh (TGV), ulm-razh (MGV)  
 Target -- les, les-tor  
 Targeting sensor -- les-kashek  
 Tarsal gland -- bezhun-wein-pi'nafek  
 Taste -- zahvan, zahv-tor  
 Taste bud -- zahvek  
 Taupe -- khav-zhai-kur  
 Taxon -- ha-veltra  
 Tea -- tei (Earth-style); theris(-masu)  
 Teach -- saven-tor  
 Teachings -- savan-don-tak  
 Teal (color) -- yar-pla-kur  
 Tear(s) -- bezhun-masu  
 Tear drop -- bezhun-masu-thek  
 Tear duct -- bezhun-masu-mev  
 Technical -- ek'mishupik  
 Technicium -- saran-tukh  
 Technology -- ek'mishan  
 Tectonics -- solektra-dvun-tal  
 Teething -- zudaya  
 Tektite -- makh-vihk  
 Telepathy -- irak-nahan  
 Telescope -- irak-zan-vel  
 Tell -- var-tor  
 Tellarite -- Tellarsu  
 Tellurium -- vnel-tukh  
 Telocentric chromosome -- shaht-toltra

Temperature -- falek'es  
Temporal field generator -- wak-vunai-ferek  
Temporal transmitter -- wak-sasayek  
Temporal transponder -- wak-vavayek  
Temporary -- rikwonik  
Tend (care for) -- palutunau  
Tendon -- dvunek-tersayek  
Tendonitis -- dvunek-tersayek-yonshaya  
Tenet -- dvatai  
Tenodynia -- dvunek-tersayek-kusut  
Tense (grammar) -- wis  
Tephra (geol.) -- thorshau-zul-tukh  
Teratogenic coolant -- stislak-samuyau-tukh  
Terbium -- valsh-tukh  
Term (n.) -- zhil  
Terminology -- zhilikam  
Ternary fission -- nala-rehsaya  
Terrace -- nef  
Terricolous -- fi-solek-to'ovauk  
Territory -- tsokal  
Terror -- vash  
Test (n.) -- nisan  
Tether (n.) -- elsaku  
Tether coupling -- elsaku-tersayek  
Testa -- nei-wein  
Testicular cancer -- sakal-rasahtra  
Testis -- sakal  
Testosterone -- sa-dau-tukh  
Tetradecagon -- keh-leh-vla  
Tetradecahedron -- keh-leh-muk  
Tetragon -- keh-vla  
Tetrahedron -- keh-muk  
Tetrahexahedron -- keh-sheh-muk  
Tetrakaidecagon -- leh-keh-vla  
Tetrakaidecahedron -- leh-keh-muk  
Tetramer -- keh-ketek  
Tetrameros -- keh-krusik  
Texture -- lef'es  
Thalamus -- zhaitra  
Thallium -- yad-tukh  
Thallophyte -- rinatilau-kastik  
Thallose -- rinatilau-kasik  
Thallus -- rinatilau-vukhut  
Than -- do  
Thank (v.) -- itaren  
Thankful -- itar-bosh  
That one -- ish-veh  
Thelarche -- thasek-storau-palikaya  
Them -- au  
Then -- yi  
Theorem -- kek'yed (anc.)  
Theory -- wihka  
Therapy -- ben-gun

There -- tra, tra'  
 Thermalgesia -- safalek-kusut(-nosh)  
 Thermocline -- masu-falek-tin  
 Thermoduric -- falek-rishupik  
 Thermodynamics -- (ek')falek-tal  
 Thermometer -- falek'es-thonek  
 Thermophile -- falek'es-ashausu  
 Thermosphere -- si-falek-ek'shal  
 Thermostat -- falek'es-dvelek  
 These -- aifa  
 They -- au  
 Thiamine -- wuh-bin-tukh  
 Thick -- bali  
 Thicket -- pi'laptra  
 Thigh -- abru-mal  
 Thigmotaxis -- esta-sadvun  
 Thin (adj.) -- wonil (anc.)  
 Thing -- vel  
 Think (v.) -- nah-tor  
 Thirst -- mag  
 This one -- nash-veh  
 Thoracic medicine -- tuf-has-tal  
 Thoracic nerve -- tuf-wel  
 Thoracic vertebra -- tuf-hinek, abru-pla'dor-hinek  
 Thoracocentesis -- tuf-masu-nisan  
 Thorax -- tuf  
 Thorium -- bogush-tukh  
 Thoron -- thor'gal  
 Thoron particle-beam rifle -- kar-pohshayek t'thor'gal-zehl  
 Thoron shock emitter -- thor'gal-kolau-sayek  
 Those -- eifa  
 Thought(s) -- nahp (anc.)  
 Thread (n.) -- og-elakh  
 Threat -- nan  
 Threaten -- nan-tor  
 Throat -- drahk  
 Throb -- gau, gaya  
 Thrombectomy -- khaf-vihk-snem  
 Thrombocyte -- vihk-nala  
 Thrombocytosis -- wehk-nosh t'vihk-nalalar  
 Thrombus -- shi-klotau-vel  
 Throttle (n.) -- threshan-tashek  
 Through -- k'fai  
 Through which -- k'fai'ei (TGV), k'fayei (MGV)  
 Throw -- lehm, lehm-tor  
 Thrust (n.) -- kwit  
 Thrust initiator -- kwit-palikayek  
 Thruster -- kwitek  
 Thruster -- kwitek  
 Thruster array -- kwitek-zehlaya  
 Thruster pack -- su-kwitek  
 Thruster suit -- kwitek-saikhut  
 Thulium -- irhin-tukh

Thumb (n.) -- kaur-ozh  
Thunder -- rahm  
Thunderstorm -- rahm-sahriv  
Thymus -- tuf-pi'nafek  
Thyroid gland -- drahk-pi'nafek  
Tibia -- ne-mal-hinek  
Tidal current -- mashen-pilash  
Tidal flat -- mashen-eiktra  
Tide -- mashen (old contraction of "masu-shen")  
Tight -- wufik  
Tighten -- wufkau  
Tilt -- ayau, ayaya  
Tilth -- sokasitau-solek-nosh  
Timber -- lap-tukh  
Time -- wak  
Timer -- wakek  
Tin -- zhai-tukh  
Tinnitus -- kaluk-kusan  
Tip (n.) -- um  
Tire (v.) -- zung-tor  
Tired -- zungor (anc.)  
Tissue (biol., med.) -- nalatra  
Tissue regenerator -- nalatra-vaferak  
Titanium -- vau-tukh  
Today -- nash-gad  
Toe -- gof  
Together -- teretuhr (anc.)  
Tolerance -- wivel'es  
Tolerate -- wivelau  
Tomb -- brag  
Tomorrow -- fa-gad  
Tone (sound) -- molu  
Tongs -- el'abrashayek  
Tongue -- lahv  
Too (also) -- isha  
Too (adv.) -- nuh'  
Tool -- raul  
Tooth -- zud  
Top (n.) -- fik  
Topsoil -- skonn-solek  
Tornado -- da-eshu'a  
Torpedo -- lushun  
Torus -- kap-kuv  
Total (adj.) -- ovsot (anc.)  
Total (n.) -- ovus (anc.)  
Touch (n.) -- esta  
Touch (v.) -- estuhl  
Touchkey panel -- esta-tal-muvik math  
Tough -- dulai  
Tower -- kispek  
Town -- kahr  
Toxic -- hasamik  
Toxicology -- gisam-tal, hasam-tal

Toxin -- hasam  
 Toy (n.) -- leitri  
 Trace (v.) -- zavikau  
 Trace element -- pi'lek-meilak  
 Trachea -- esh-mev  
 Tracheotomy, Tracheostomy -- esh-mev-tu'ashan  
 Tract (med.) -- ek'ur  
 Tractor beam -- seshau-zehl  
 Tradition -- ba'tak (anc.)  
 Traditional -- ba-, baik  
 Trail (n.) -- yut  
 Train (v.) -- ranau  
 Trainee -- ne-lan  
 Trait -- noshtra  
 Transceiver -- sasau-proprahek  
 Transcend -- namautau  
 Transfer -- shan, shan-tor  
 Transform -- mesuvulau  
 Transformation -- mesuvulaya  
 Transfusion (med.) -- khaf-vitanan  
 Transkinetic chamber -- mesakh-dvunik tvi-shal  
 Translate -- mesukh-tor  
 Translation -- mesukh  
 Transmission -- sasaya (signal); mesmishek (mech.)  
 Transmit -- sasau  
 Transmitter -- sasayek  
 Transparent -- fngla-, fnglatik  
 Transparent aluminum -- fngla-wan-tukh  
 Transpiration -- kas-samasu-eshan  
 Transplant (v.) -- va'prah (krus)  
 Transponder -- vavayek  
 Transport (v.) -- ifis-tor  
 Transport (vessel) -- ifis-hali  
 Transportation -- ifis  
 Transporter (matter) -- ifisek  
 Transporter beacon -- ifisek-glaribek  
 Transporter buffer -- ifisek-fukat  
 Transporter lock -- ifisek-klachek  
 Transporter pad -- ifisek-math  
 Transporter platform -- ifisek-skaf  
 Transporter room -- ifisek-tvi-shal  
 Transporter scrambler -- ifisek-parishek  
 Transtator -- mesnoshek  
 Transverse bulkhead -- mes-tvi-temok  
 Transwarp corridor -- mesakh-tchas-tvur  
 Transwarp drive -- mesakh-tchas-yeturek  
 Trap -- pash, pash-tor  
 Trapezohedron -- wuh-vlavlayik wehk-muk  
 Trapezoid -- wuh-vlavla-vel  
 Trash (n.) -- guhsh  
 Trauma -- khreya  
 Travel -- halovau, halovaya  
 Travel pod -- halovau-tvi'haf

Treat (v.) -- skasau  
 Treatment -- skasaya  
 Treble (high frequency sound) -- abralash  
 Treble frequency -- abralash-vakav'es  
 Tree (n.) -- lap  
 Trek -- halan, hal-tor  
 Trend (n.) -- venek  
 Triangle -- reh-vla  
 Tributary -- yemek  
 Tricobalt explosives -- thorshau-tukh t'reh-pla-tukh  
 Tricorder -- reh-vipladayek  
 Tridecagon -- reh-leh-vla  
 Trifoliate -- reh-pi'morik  
 Trigger (n.) -- ozh-gonaf  
 Trigonometry -- reh-vlupik su'us-ek'tal  
 Trihedron -- reh-muk  
 Trilithium explosives -- thorshau-tukh t'reh-pim-tukh  
 Trimer -- reh-ketek  
 Trimerous -- reh-krusik  
 Trinomial -- rehsu'us  
 Trio -- rehek  
 Trip (voyage) -- halan  
 Triplet -- t'rehsu  
 Triskaidecagon -- leh-reh-vla  
 Trisectahedron -- reh-oh-muk  
 Trolley coupler -- ne-halektra-teretek  
 Tropical rain forest -- falu-masu-laptra  
 Troposphere -- igen-va-ek'shal  
 Trousers -- malanu  
 Truncated cone -- snem-ikun  
 Truncated cube -- snem-sheh-muk  
 Truncated pyramid -- snem-rekun  
 Trust -- sahrifel (anc.)  
 True -- yeht  
 Trunk (tree) -- lap-fek  
 Truth -- yeht'es  
 Tsunami -- khrash-pral  
 Tub -- matuhlek  
 Tuber -- ne-solektra-korsayek  
 Tuff (geol.) -- vitush-kov  
 Tug (equip.) -- seshayek  
 Tug (pull) -- seshau, seshaya  
 Tumor -- gnal  
 Tundra -- samek-psethtra  
 Tune (v.) -- tvelkau  
 Tungsten -- ler-tukh  
 Tunnel (n.) -- ur  
 Turbine -- mor-dayek  
 Turbolift -- seshan-sa'adek  
 Turbolift car -- seshan-sa'adek-hal  
 Turbolift shaft -- seshan-sa'adek-ur  
 Turbulence -- wauk  
 Turbulent -- wauk-, waukik

Turgor -- nala-ne'hish-stegal'es  
 Turn (v.) -- da-tor  
 Turquoise (color) -- folu-kur  
 Turquoise (stone) -- folu  
 Twig -- pi'gel  
 Twice -- dah'wak  
 Twin -- t'dahsu  
 Tympanic membrane -- zhu-nalatra-tin  
 Type (kind) -- ves  
 Typhoon -- suk'masutra-eshu'a

Ugly -- watosh  
 Ulcer -- razhen  
 Ulemorrhagia -- zud-wadi-khafaya  
 Ulitis -- zud-wadi-yonshaya  
 Ulna -- tvik ne-kar-hinek  
 Ultimate -- dan-ek  
 Ultramarine (color) -- ug'pla-kur  
 Umbilical cord -- tersau-elakh  
 Umbilicus -- kesazh  
 Umbra -- duv  
 Unaka (geol.) -- suk'haf-kunel  
 Unaligned -- rizehlik  
 Unction -- elmuvak  
 Under -- ne'  
 Understand -- ken-tor  
 Unexpected (n.) -- ri-gishu  
 Unguis -- felu  
 Unimatrix shielding -- wuh-viskulanik fo-danan  
 Unique -- wuhin-, wuhinik  
 Uniramous -- rigelik  
 Uniseriate -- wuh-zehlik  
 Unisexual flower -- wuh-guv-svai  
 Unit -- kebi  
 Unite -- kaunshau  
 United -- kaunshuk  
 United Federation of Planets -- Teraya Kaunshuk t'Ek'tralar  
 Unity -- kaunsh'es  
 Universal translator -- ek'mesukh-stari-vel  
 Universe -- stukhtra  
 Univoltine -- wuh-tevun-vinik  
 Unknown (n.) -- ri-fainu  
 Unless -- vita  
 Unlikely -- rikesik  
 Unobtainable -- tah (anc.)  
 Unsaturated fat -- ribosh-thel'a  
 Until -- abi'  
 Unusual -- ritsuri  
 Uplink (n.) -- abrunaf  
 Upper integral -- weh-abru-ketil  
 Upper limit -- weh-abru-grei  
 Upper mantle (geol.) -- abru-tvi-kovtra  
 Upper sum -- weh-abruhik hau-ov



Upright -- abruvenik  
 Upward(s) -- abru'le  
 Upwelling -- (masu-)abru-dvun  
 Upwind -- abru'salanik  
 Uraninite -- shu-kov  
 Uranium -- shu-tukh  
 Ureter -- kapol-nafek-mev  
 Urethra -- vazh-mev  
 Urethritis -- vazh-mev-yonshaya  
 Urethropraxis -- vazh-mev-klotaya  
 Urgent -- akali  
 Urinate -- vazhau  
 Urination -- vazhaya  
 Urine -- vazh  
 Urodynia -- vazhau-kusut(-nosh)  
 Urology -- vazh-ek'ur-tal  
 Us (normal) -- etek  
 Us (superior) -- etwel  
 Usage -- isan  
 Use -- is, is-tor  
 Use up -- neis-tor  
 Useless -- is-fam  
 Usual -- tsuri  
 Uterus -- sudef  
 Utility belt -- isan-san-zhel

Vaccinate -- ro-kasau  
 Vaccination -- ro-kasaya  
 Vaccine -- ro-kas  
 Vacuole -- nala-korsau-haf  
 Vagile -- kup-padvunik  
 Vagility -- kup-padvun'es  
 Vagina -- keshtan-ur  
 Vaginitis -- keshtan-ur-yonshaya  
 Valley -- ku-li (anc.)  
 Valuable -- taluhk  
 Value (n.) -- tala  
 Valve -- spunek  
 Vanadium -- kaul-tukh  
 Vapor -- muhs  
 Variable (n.) -- vuhnayek  
 Variant (n.) -- vuhnaya  
 Variation -- vuhnaya  
 Varied -- vuhnal-, vuhnalik  
 Variety -- vuhna'es  
 Various -- vuhnauk  
 Vary -- vuhnau  
 Vas deferens -- suk'sa-nei-mev  
 Vascular -- khaf-mevik  
 Vasculitis -- khaf-mev-yonshaya  
 Vat -- (suk')matuhlek  
 Vector (n.) -- vukharat  
 Vegetable -- sazh

Vegetarian (n.) -- kastik-goh-yokulsu  
Vegetation -- kastra  
Vein (anat.) -- os-khaf-mev  
Velocity -- threshan  
Venation -- mor-mevaya  
Venom -- ausham  
Vent (n.) -- krau  
Ventilation -- kraulaya  
Ventilator -- kraulayek  
Verb -- tor-zhit  
Verification -- rihamaya  
Verify -- rihamau  
Vermilion -- yon-zhar-kur  
Vernal equinox -- ka-wak-gad t'kastik-wak  
Vertebra -- plat-hinek  
Vertebral column -- plat  
Vertex -- um-sfek  
Vertical -- abru'lik  
Vertical fault -- abru'lik dvun-zehl  
Very -- maut  
Vessel (ship) -- hali  
Vex -- smertau  
Victor -- skilsu  
Victory -- skil  
View (v.) -- zan-tor  
Viewscreen -- gluvayek  
Vigor -- hakar  
Vigorous -- hakarik  
Village -- pi'kahr  
Vine -- kas-elakh  
Vinegar -- sfith-masu  
Violence -- khrash  
Violent -- khrashik  
Violet (color) -- mu'gahv-kur  
Virion -- rihak-pi'krus  
Viroid -- rihak-vel  
Virus -- rihak  
Visit -- yaret, yaretau  
Visual sensor pickup -- gla-kashek-prahek  
Vital -- bol-, bolik  
Viviparous -- tvi-yu-mursuk  
Vocabulary -- zhit-feim  
Vocal cord -- spesek  
Voice -- spes  
Voice/data selector -- spes-faik-dvelek  
Volcanic ash -- sposhan-vitush  
Volcanic bomb -- sposhan-vihk  
Volcanic chain -- zul-kunel-zehl  
Volcanic cloud -- sposhan-wan  
Volcanic crater -- zul-razh  
Volcanic ejecta -- thorshau-zul-tukh  
Volcanic eruption -- zul-kunel-sposhan  
Volcanic glass -- zul-makh

Volcanic sand -- zul-mazhiv  
 Volcanic vent -- zul-ru'lut  
 Volcano -- shi'yon, zul-kunel  
 Volt -- toruk  
 Voltage -- toruk'es  
 Volume -- mog'es (math., physics); ral'es (loudness)  
 Volume control -- ral'es-tash(ek)  
 Voluntary -- toripik  
 Voluntary muscle -- tash-dvunek  
 Vomit -- pluhk, pluhk-tor  
 Vortex -- tchef  
 Voyage -- halan, hal-tor  
 Vug (geol.) -- kov-razh  
 Vulcan (person, language, etc.) -- Vuhlkansu  
 Vulcan (planet) -- T'Khasi  
 Vulcan Academy of Sciences -- Shi'Oren t'Ek'Tallar T'Khasi  
 Vulcan Diplomatic Courier Service -- Dutarik Sklada-Dvin T'Khasi  
 Vulcan Institute of Technology -- Trahokna t'Ek'Mishan T'Khasi  
 Vulcan Security Force -- V'Shar (anc.)  
 Vulcankind -- vuhlkantra  
 Vulcanology (study of volcanoes) -- zul-kunel-tal  
 Vulcantology (study of Vulcans) -- vuhlkansu-tal  
 Vulva -- kotik si-guv-kruslar

Waist -- san  
 Wait (v.) -- bek-tor  
 Walk (n.) -- lates (anc.)  
 Wall -- temok  
 Want -- aitlu, aitlun  
 War -- ahkh (anc.)  
 Warfare -- ahkhan  
 Warhead -- thorsh-tam  
 Warm -- lamekh  
 Warn (v.) -- vikau  
 Warp core -- tchas-tviyan  
 Warp core breach -- tchas-tviyan-shaya  
 Warp conduit -- tchas-mev  
 Warp diagnostic assembly -- feretai t'tchas-nosh-nisaklar  
 Warp drive -- tchas-yeturek  
 Warp engine -- tchas-mishu  
 Warp engine nacelle -- tchas-mishu-leshek  
 Warp factor -- tchas-klai  
 Warp field -- tchas-vunai  
 Warp plasma conduit -- tchas-snazh-mev  
 Warp plasma filter -- tchas-snazh-kapol  
 Warp plasma stabilizer -- tchas-snazh-tihetilayek  
 Warp plasma subprocessor -- ne-patorayek t'tchas-snazh  
 Warp speed -- tchas-threshan  
 Warrant officer -- ulef-lan  
 Wart -- gakh  
 Wash (v.) -- pu-tor  
 Waste (v.) -- thinoi  
 Waste management system -- guhsh-khartau-torektra

Wastewater -- guhsh-masu  
 Wastewater recycling plant -- va'ash-da-nelek t'guhsh-masu  
 Watch (v.) -- glantau  
 Watch over -- paluntunau  
 Water -- masu; mashau  
 Water main -- masu-ek'mev  
 Water table -- masu-tin  
 Waterspout -- masutra-eshu'a  
 Watertight -- masu-fenk(-)  
 Waterway -- masu-yut  
 Watt -- purtwi  
 Wattage -- purtwi'es  
 Wave (n.) -- pral  
 Waveguide -- pral-yut  
 Way -- yut  
 We (normal) -- etek  
 We (superior) -- etwel  
 Weak -- kobat  
 Weaken -- kobatau  
 Weakness -- kobat'es  
 Wealth -- don-tak (anc.)  
 Weapon -- wun  
 Weather -- igen-va (n.), igen-vasha (v.)  
 Weathering -- igen-vashan  
 Web -- vis  
 Wedge (n.) -- shihvek  
 Weed (n.) -- vedik  
 Weep -- tusa  
 Weigh (v.) -- rasathau  
 Weight -- rasath  
 Weird -- flekh  
 Weld (v.) -- falterau  
 Well (adj.) -- muhl  
 Well (n.) -- masu-razh  
 West -- tev'rak  
 Wet -- masupik  
 Wetland(s) -- masu-kas-shal  
 What -- ra  
 Wheat -- kap-yar  
 Wheel (n.) -- halek  
 When -- lu  
 Where -- wilat  
 Which -- if  
 White -- wan-kur  
 Who -- vi  
 Whole blood -- ek'khaf  
 Whole number -- ek'su'us  
 Whose -- t'vi  
 Why -- po  
 Wide -- eik  
 Width -- eik-vath  
 Widening -- eikan  
 Wife -- ko-telsu

Wild (not tame) -- kwai  
 Wilderness -- shi'kwai  
 Wildlife -- kwai-aushfatra  
 Will (v.) -- dungi, dungi-  
 Win -- skil, skil-tor  
 Wind -- salan (n., meteor.); kuvor-tor (v.)  
 Wind shear -- salan-eitaya  
 Winding (n.) -- kuvoran  
 Window -- krani  
 Wing (n.) -- rala  
 Winner -- skilsu  
 Winter (season) -- Karil, "Kareel" (colloquial); irak-wak (scientific)  
 Wire (n.) -- raf-elakh (elect.), mokelakh (metal)  
 Wisdom -- kau  
 Wise -- kau-bosh  
 Wish -- istau, istaya  
 Withdraw -- saseshau  
 Without -- rik'  
 Witness -- toglantausu (n.), toglantau (v.)  
 Woman -- kosu  
 Womb -- sudef  
 Wood -- lapan  
 Woodcarver -- lapan-skrimsu  
 Woodland -- lap-shal  
 Woody -- lapanik  
 Word -- zhit  
 Work -- ar'kada, ar'kadan  
 Workbee -- ar'kada-ravot  
 Workshop -- zup-shal  
 World -- panu  
 Wormhole -- stukh-riur  
 Worse -- weh-rasahkos (anc.)  
 Worth -- don  
 Wound (n.) -- skek  
 Wrench -- mish-vel-raul  
 Wrist -- kar-nik  
 Wrist communicator -- kar-nik-sviribayek  
 Write -- kitau  
 Writer -- kitausu  
 Wrong -- riyeh(-)

X-axis -- sih-da-sfek  
 X-ray -- vak-zehl, vak-zehl-tor  
 Xanthophyll -- kas-kin-kurek  
 Xenobiology -- akan-ha-tal  
 Xenolith -- vi-kwitau-kov  
 Xenon -- ritsuri-tukh  
 Xenophobia -- ri-fainusu-pthak  
 Xeric -- neik-masu'es-kasik  
 Xerophyte -- neik-masu'es-kastik  
 Xylem -- tvi-tin t'lap-vukhut  
 Xylose -- lapan-slur-tukh

Y-axis -- tih-da-sfek  
Y-intercept -- tih-fnakaya  
Yard (n.) -- ker (anc.)  
Yardang (geol.) -- salan-kov-zehl  
Yawn -- luvau, luvaya  
Year -- tevun  
Yeast -- she-luk  
Yell -- saul, saul-tor  
Yellow -- kin-kur  
Yeoman -- gol'nevsu  
Yes -- ha  
Yesterday -- za-gad  
Yet -- wi  
Yet, not -- ri wi  
Yolk (egg) -- vek  
Yolk sac -- vek-sa'haf  
You -- du, tu  
You (reflexive) -- vu  
Young -- nu'ri(-) (anc.)  
Ytterbium -- sasal-tukh  
Yttrium -- arlanga-tukh

Z-axis -- pih-da-sfek  
Zenith -- shi'dan-abru  
Zero -- ris  
Zinc -- tsau-tukh  
Zirconium -- t'lai-tukh  
Zonation -- shalitaya  
Zone -- shal  
Zoo -- shi'aushfa  
Zoology -- aushfa-tal  
Zoophobia -- aushfa-pthak  
Zooplankton -- masutra-numo-aushfa  
Zygomatic bone -- nak-hinek  
Zygomorphic -- wuh-pa'ashutik  
Zygote -- sto-yu-mur  
Zymase -- naliveh-zalu  
Zymogen -- za-zalu

## INTRODUCTION TO GOLIC VULCAN GRAMMAR

### Ragtaya na'Zhit-Isan Gol-Vuhlkansu

The language Traditional Golic (TGV), also variously known to offworlders as "Old Vulcan", "High Vulcan", "Ceremonial Vulcan" or "Old Liturgical Vulcan" and known from the time of Surak and his followers, is descended from what historians usually call "Ancient Golic Vulcan", the language spoken at least 25,000 years ago on the Plains of Gol and surrounding regions. Its directly descended modern form is called Modern Golic (MGV). (Another descendant of Ancient Golic Vulcan is the extinct FthinraKathi, which is also discussed separately on our site.) Traditional Golic continues to be spoken in ceremonial usage, at traditional schools of various disciplines (such as those at Gol and Mount Seleya), by poets and writers of certain styles of literature, by devout followers of Surak's teachings, and by members of many old clans. It is one of three "official" languages of the planet Vulcan (T'Khasi) and all educated Vulcans speak the language in addition to other dialects, somewhat like the status Latin had for something like 1,500 years on Earth. Modern Golic is the dialect spoken by the people who live in the Gol region.

Philologists and linguists from outside T'Khasi often use the term "Old High Vulcan" in Federation Standard English (FSE) to describe the traditional form of speaking the Golic Vulcan language, although this is not accurate and has led to much confusion. Linguistic experts from T'Khasi itself call this language "Ba-Golik" (Traditional Golic) or more formally, "Ba-Gol-Vuhlkansu". The contemporary form is often incorrectly called "High Vulcan" (HV) by offworlders but "Iyi-Golik" (Modern Golic) or "Iyi-Gol-Vuhlkansu" by the Vulcans. This is roughly similar to the difference between the King's English and American English on Earth -- the first lead to the second and, although they have their differences, they are still, for the most part, the same language. When you see the term "Old High Vulcan", consider it an umbrella term for the two languages when the reference can or does refer to either or both forms of the Golic Vulcan.

### ***Grammar Fundamentals***

TGV is a "compounding" language. Basic words and roots are put together to make new words, a lot like the Germanic languages of Earth. For example, the TGV for "mouth" is "ru'lut" and for "water" or "fluid" is "masu". If you combine the two smaller words, you get "ru'lut-masu", which means "saliva" (literally "mouth-water"). Some ancient compound words, like "kun-ut" ("marriage" or "bonding") have lost their separate meanings. Also, some adopted ancient words are no longer obvious compounds. Most compound words have a " - " ("pakh", similar to a hyphen) separating their roots. *Saga'sek's Third Word Law* states, "No more than three root words can combine to form a compound word, although a full word triad can take prefixes and suffixes." For example, "fal-tor-pan" is possible (as is "na'fal-tor-pan" or "fal-tor-pan'es"), but *never* something like "ahn-wun-san-zhel" (which should be written "san-zhel t'ahn-wun"). Students should learn to split up compound words to analyze their roots.

Another important point with TGV can be made by using a rough comparison with Old Icelandic and Modern Icelandic from Earth. Modern Icelandic builds up new vocabulary by "recycling" an obsolete word or a word from the older language. Golic Vulcan does this as well. One of many examples is the term for "computer" which is based on the old word "tum", meaning "tally" and the common "vel", meaning "thing". "Tum-vel" literally means "tally(ing) thing", but is adapted for modern terminology. Remnants of this can be found in many other languages as well.

TGV is also an affixing language. Prefixes and suffixes are added to words (simple or compound) to modify them. In TGV, most nearly all words corresponding to prepositions are prefixes. These are usually separated from the word they modify by a Vulcan "half-stop" ("ulef-pekhaya") or " ' " (similar to an apostrophe). For example, "etwel" means "us" but "k'etwel" means "with us" and "s'etwel" means "from us". Suffixes are also important. They can be directly affixed, or separated by " ' " or " - ". For example, "fonn" (loyal) and "fonn'es" (loyalty) or "kan" (child) and "kan-fam" (childless). When new to the language, it is easy to confuse

a compound word with a suffixed word. Also, certain ancient words handed down or adopted from now-extinct languages, like "t'forti" (finally), may look like they are prefixed but they are not. Memorizing the historical exceptions will help to prevent confusion later on.

Finally, GV is a "syntactic language", meaning sentence construction and word order determine meaning. There are no declensions and practically no inflections to cause confusion.

### *GOLIC VULCAN AFFIXES*

#### Tereklar Gol-Vuhkansu

#### Common Prepositional/Directional Prefixes

<b>Prefix</b>	<b>Meaning</b>
abi'	until
abru'	above, over
be'	beside, near, next to
du'	while, during
fa'	before, in front of
fi'	on, atop
fna'	through
k'	with, by
kwi'	from a distance, from far away
mes'	across
na'	at, to(wards); for
ne'	below, under, down
pa'	around
po'	after
rik'	without
s'	from, out of
si'	outside (of)
svi'	amongst, between, inside (of)
t'	of, belonging to
vi'	into
za'	behind



## Common Combining/Modifying Prefixes

Prefix	Meaning
abru-	over~, up~
dan-	~est, most ~
ek'	all, total, pan~
fa-	fore~, front~, bow(-), anterior
fe-	pre~, ante~
fna-	through(-)
fu-	proto-
i'	now, at this moment
ish-	that
ki'	to have + verb (participial)
kup-	to be able (to)
kwi-	tele~
la'	here
lau-	may, might
mes-	cross(-)
mesakh	trans~
nash-	this
ne-	under~, down~, sub~
nuh'	too (fast, slow, etc.)
pa-	circum~
pi'	diminutive prefix
pla'	back(-), retro(-)
po-	after~, post~
sa~	ex~, outward(-); from out of, away from (combining form)
sha'	one's own
shati-	auto(-)
shi'	place (of) . . .
si-	exo~, outer(-), ecto~, extra~
tehn-	anti-
tra'	there
tvi-	endo~, inner~, inter~
u'	as (a)
ul-	semi(-), demi(-), part(-), partial(-)
va'	infinite, innumerable, immeasurable
va~	re~
vesh'	to have been, was, were + verb = past tense

wa'	generally, particularly
weh-	~er, more ~
wehk-	multi~, poly~
za-	posterior, aft(-), stern(-)

## Common Suffixes

Suffix	Meaning
~an	added to name, similar to Mr. or Ms.
~lar	plural
~su	~er, ~or, ~ist, ~man, ~person (and their language)
~tra	mass, expanse, grouping, collection, etc.
'es	~ness, ~ity, ~ty, ~cy; ~ment, ~tion
'Kahr	city, town, ~ton, ~ville
'le	~ward, ~ways
'rak	position/place(ment), ~th
-akteiben	~ment, ~tion (rare in contemporary usage, see <b>'es</b> )
-bosh	~ful, possessing/having a lot (of something)
-elakh	(-)line, (-)wire, cable
-fam	~less, lacking, without
-hali	vessel, vehicle, ~ship, ~cycle
-kahk	-like
-kam	denotes affection (usually mother-child)
-kan	child
-kel	building, structure
-kelek	~home, ~house
-kov	(~)rock, (~)stone
-kur	color
-lan	designates a military rank
-razh	~hole, ~shaft, (-)pit
-tal	~ology, study, discipline
-tor	added to noun or root to make verb
-tukh	stuff, material, matter, substance, ~ium
-veh	~one, ~body
-vel	object, (-)thing, item
-wilat	~where, ~place
-yehat	~able, ~ible
-yem	(-)meal

-vukuleri	(~)eater, ~vore
-yut	(~)way, (~)path, (~)road, street
-zan-vel	~scope

### Verb-Noun Word Pairs

Most Golic Vulcan words come in what are usually called verb-noun word pairs. If you know the verb, you can often determine the related noun, or vice versa. Most GV verb-noun pairs follow one of several standard patterns. This subject is addressed in the language lessons. The table below shows the most common forms with sample words:

Type	Noun ending	Noun	Verb	Comments
1	(none)	saul (shout)	saul-tor	most common; bare root plus <b>-tor</b> to make verb
2	(varied)	ha'kiv (life)	ha-tor	ancient compound with root extracted plus <b>-tor</b>
3	(varied)	talal (find)	tal-tor	noun variant to prevent similar word confusion
4	(varied)	esta (touch)	estuhl	ancient words, highly irregular with no pattern
5	an	psthan (search)	pstha	ancient words, <b>n</b> added to verb to make noun
6	an	tevan (fall)	tev-tor	pre-Surak words, <b>an</b> dropped and <b>-tor</b> added
7	aya	shaya (break)	shau	<b>u</b> dropped from verb, <b>ya</b> added to make noun
8	~n	shen (rise)	she-tor	pre-Surak words, <b>n</b> dropped and <b>-tor</b> added
9	shan	reshan (rage)	resha	pre-Surak words, <b>n</b> added to verb to make noun

### GOLIC VULCAN ETYMOLOGY

#### Zhit-Vesht-Tal Gol-Vuhlkansu

"Traditional Golic Vulcan" and "Modern Golic Vulcan" are part of a family of closely related languages descended from an extinct ceremonial/liturgical Vulcan language (CLV) spoken millennia ago by those at the discipline centers of Gol and the surrounding region, which in turn was descended from the Ancient Golic Vulcan (AGV) of at least 25,000 years ago. AGV has been likened to the Indo-European root language of Earth. Little is known of AGV and those who spoke it because wars and natural disasters have wiped away most traces of that culture. The surviving pieces of information come from fragments of ancient texts and archeological discoveries, such as those in the region of the Obelisks of Vulcan.

Many Golic Vulcan words are descended from words rooted in mythology, warfare or religion, because those things dominated Vulcan life for untold millennia. We feel that understanding the history of a word will make learning the language more interesting and shed light on the culture of Vulcans past and present.

Below is basic etymological information on a variety of Golic Vulcan words, including their roots back to CLV and AGV where known. Those interested in the origin of words should find this fascinating.

A'rak (positive) -- unchanged word from CLV, derived from AGV "á-rhak", meaning "good direction".

Abru' (over) -- from CLV "apru'" and AGV "ápruu".

Abru'le (upwards) -- from CLV "apru'leh" and AGV "ápruullh".

Abru-mal (thigh) -- literally "upper leg".

Af'tum (kitchen) -- unchanged word from CLV, derived from AGV "àffu'dúmh", meaning "cooking chamber".  
 Ahkh (war) -- from an ancient non-Golic word, "ahkh".  
 Ahkhsu (warrior) -- literally "war person".  
 Ahm (name) -- unchanged word from CLV and AGV.  
 Ahs (jaw) -- unchanged word from CLV and AGV.  
 Aifa (these) -- from CLV "aifu" and AGV "ayivu".  
 Aikum (moon) -- unchanged word from CLV; AGV form is unknown.  
 Ak (soon) -- unchanged word from CLV and AGV.  
 Ak'spra (heretic) -- unchanged word from CLV, derived from AGV "ahr'shprátu", meaning "one who goes against what is written".  
 Alem (salt) -- unchanged word from CLV and AGV.  
 Alem-tukh (sodium) -- literally "salt stuff", because common salt is comprised of sodium and chlorine.  
 Aluk (fish) -- unchanged word from CLV; AGV form is unknown.  
 Arlanga-tukh (yttrium) -- chemical element first found in the Arlanga mountain range.  
 Asal (morning) -- from CLV "ashahl", derived from AGV "aš'əl'e", the rising (time).  
 Ash-vel (shoe) -- literally "treading thing".  
 Au (them/they) -- unchanged word from CLV, derived from AGV "á".  
 Ausham (venom) -- unchanged word from CLV, derived from AGV "ášumh".  
 Avon (hunger) -- from CLV "avonn", derived from AGV "àfhonnh".

Bah-ker (garden) -- unchanged word from CLV, derived from AGV "báha-kèrru", meaning "food yard".  
 Bar-kas (spice) -- unchanged word from CLV, derived from AGV "bárrh-kàšū", meaning "tongue-biter", an effect of spices.  
 Bes (drawing) -- from CLV "bæs" and AGV "b'hàs".  
 Bezhun (eye) -- from CLV "bæshun" and AGV "b'hàshúnh".

Da-fek (axle) -- literally "turn(ing)-pole".  
 Da-rala-hali (helicopter) -- literally "turning wing vehicle".  
 Da-sfek (axis, pivot) -- literally "turn(ing)-point".  
 Dah-halek (bicycle) -- literally "two-goer", as in a conveyance with two wheels.  
 Dan (rotation) -- from CLV "dahn" and AGV "dhánh".  
 Danau (to explain) -- unchanged word from CLV, derived from AGV "dháná".  
 Dau (to affect) -- unchanged word from CLV, derived from AGV "dhá".  
 Dawan (an undependable person) -- from CLV "dal'wanu" and AGV "da'w'lhán".  
 Don-ka (rich) -- unchanged word from CLV, derived from AGV "dónh-ká", meaning "money-having".  
 Dun (paper) -- unchanged word from CLV, derived from AGV "dúnh", a papyrus-like paper made from the fibers of an edible root.  
 Dunap (book) -- from CLV "dunapi", derived from AGV "dúnh-abù", "scroll".

Ek'zer (gem/jewel) -- unchanged word from CLV, derived from AGV "àh-zèrrh", meaning roughly "all-value", from a very ancient practice of using gems as monetary units.  
 Esh (breath) -- from CLV "æsk" and AGV "àš".  
 Esh-tukh (oxygen) -- literally "breath(ing) stuff".  
 Esh-mev (trachea) -- literally "breath(ing) tube".

Glan (sight) -- from CLV "glahn" and AGV "glánh".

Ha-tor (to live) -- from CLV "hahthor" and AGV "hahdhórh".  
 Hal-tor (to go/to proceed) -- from CLV "hahlthor" and AGV "hlahdhórh".  
 Hali-kel (hangar) -- literally "vehicle structure".  
 Halitra (fleet) -- literally "vehicle mass", meaning a large group of vehicles.

Masu-hali (boat) -- literally "water vehicle".

Ne, Ne' (below/under) -- from CLV "næ" and AGV "nàh".  
 Ne'le (downwards) -- from CLV "næ'leh" and AGV "nàhellh".  
 Ne-lan (cadet) -- literally "under-rank".  
 Ne-mal (shin) -- literally "under-leg".  
 Ne-masu-hali (submarine) -- literally "underwater vehicle".  
 Ne-seshan (gravity) -- literally "down-pull".

She'rak (east) -- literally "rising direction" (from the rising sun).  
 Shen (rise, n.) -- from CLV "skæn" and AGV "š'ành".  
 Shetau (to become) -- from CLV "shætau" and AGV "š'àntá".  
 Sposhan (eruption) -- from CLV "spohshan" and AGV "sp'àšònh".  
 Stukh-hali (spaceship) -- literally "space vehicle".  
 Swana (a rare and precious item) -- from CLV "swlana" and AGV "s'w'lhánh".

Tor (to do/to make) -- from CLV "thor" and AGV "dhórh".

Ukraluk (reptile) -- unchanged word from CLV, derived from AGV "úhrállu", meaning "one who crawls".

Wan (cloud) -- from CLV "wlan" and AGV "w'lhán".  
 Wan-kur (white) -- literally "cloud-color", because clouds are one of the few "white" items historically on Vulcan.  
 Wan-tukh (aluminum) -- literally "cloud-stuff", because the metal is light in color and weight.

Yel-hali (starship) -- literally "star vehicle".

More coming soon! Please check the Vulcan Language Institute Website at [www.vulcanlanguage.com](http://www.vulcanlanguage.com) for updates.

### **Explanation of AGV and CLV orthographical symbols:**

#### **Ancient Golic (AGV):**

á -- nearly identical to GV "au"  
 à -- does not exist in GV, a short "a" sound similar to English "a" in "can" and "bat"  
 é -- nearly identical to GV "ei"  
 è -- nearly identical to GV "eh"  
 í -- does not exist in GV, similar to lengthened OHV "ii"  
 ì -- nearly identical to GV "ih"  
 ó -- does not exist in GV, similar to lengthened OHV "oo"  
 ò -- nearly identical to GV "oh"  
 ú -- does not exist in GV, similar to lengthened OHV "uu"  
 ù -- nearly identical to GV "uh"  
 § -- does not exist in GV, approximated by GV "shk"

#### **Old Ceremonial/Liturgical (CLV):**

æ -- does not exist in GV, a short "a" sound similar to English "a" in "can" and "bat"

### ***Sentence Order***

As a syntactic language, sentence order is very important in GV. The verb is almost always placed first in the sentence, although it may move for emphasis or in certain literary styles. Subjects are placed before objects in the sentence. The language tends to be "contextual" in that understood or previously mentioned things are seldom repeated, unless needed for emphasis. Non-Vulcans sometimes have a tough time understanding a conversation when pronouns, subjects and objects are dropped out. Vulcans usually find it wasteful to use more words than are truly necessary to get a point across. Normally full word usage is only done in teaching situations or formal literature.

### ***Stress***

Stress is somewhat variable in GV, although purists invariably put the stress on the second syllable of a word or root word, or the second part of a compound. Irregularities in stress are nearly all confined to adopted words from ancient or extinct languages. *Remember not to count prefixes and suffixes when determining stress.* The root word, whether compound or not, is what stress is based on. By memorization and listening to native speakers, you should have no difficulty in perfecting where stress falls.

### ***Written Vulcan***

The Vulcans who speak GV use three main styles of writing the sounds of their language. Each of these styles has a specific place in Vulcan life and society. Although they are known by various names, the most widely accepted names are Ceremonial, Common and Media. "Ceremonial" is the most ornate style, preserving a certain amount of the ancient pictographic nature of Vulcan languages. This script is used for most inscriptions, official legal and family documents, and all major logical/philosophical works. This is the style that Surak and his contemporaries used throughout their works. The "Common" script is that used in day-to-day life for writing notes, journals and correspondence, and for any use that the "Ceremonial" is not appropriate. It is not as intricate as the "Ceremonial" script and is much quicker to write. The "Media" script is a simplified form used for mass-produced printings and computer displays. It is very easy to tell the different styles apart from each other.

### ***Alphabet***

The alphabetic system used in GV is made up of three sets of three groups of three phonetic symbols -- 27 symbols in all. Each symbol represents a unique sound in the language. There are no redundant symbols. Since this instruction is for speakers of Federation Standard English (FSE), we will not be using Vulcan symbols. The actual Vulcan order of their letters is:

**S T P K R L A Sh O U D V Kh E H G Ch I N Zh M Y F Z Th W B**

In the early days of Earth-Vulcan contact, before the United Federation of Planets was formed and FSE was formalized, an inaccurate transcription alphabet was devised for FSE speakers and many of these errors have continued to the present in many of the Vulcan languages. You often see "y" written instead of the more accurate "ai", for example. This is because the "y" in English is consonant or vowel, whereas in Vulcan it is only a consonant. You can still see "feyhan" and "kreyla" instead of "feihan" and "kreila". The Vulcan Language Transliteration Conference of Stardate 6550.0 updated and corrected mistakes of the past. *All our works use the official updated transliteration/spelling rules.*

### ***Pronunciation***

See Language Lesson 1 for information on pronunciation

## Numbers

Numbers or numerals come in five forms in GV and GV: Cardinal, Ordinal, Enumerating, Combining and Adjectival. See the two lessons on numbers in our language lessons for more information.

### GOLIC VULCAN NUMBERS Su'uslar Gol-Vuhkansu

#### The five number forms in Traditional and Modern Golic:

Numeral	Cardinal	Ordinal	Enumerating	Combining	Adjectival
1	wuhkuh	wuh'rak	wuh	wuh-	wuhik
2	dahkuh	dah'rak	dah	dah-	dahik
3	rehkuh	reh'rak	reh	reh-	rehik
4	kekuh	keh'rak	keh	keh-	kehik
5	kaukuh	kau'rak	kau	kau-	kauyik
6	shehkuh	sheh'rak	sheh	sheh-	shehik
7	stehkuh	steh'rak	steh	steh-	stehik
8	ohkuh	oh'rak	oh	oh-	ohik
9	naukuh	nau'rak	nau	nau-	nauyik
10	lekuh	leh'rak	leh	leh-	lehik
11	leh-wuh	leh-wuh'rak	leh-wuh	leh-wuh-	leh-wuhik
12	leh-dah	leh-dah'rak	leh-dah	leh-dah-	leh-dahik
13	leh-reh	leh-reh'rak	leh-reh	leh-reh-	leh-rehik
14	leh-keh	leh-keh'rak	leh-keh	leh-keh-	leh-kehik
15	leh-kau	leh-kau'rak	leh-kau	leh-kau-	leh-kauyik
16	leh-sheh	leh-sheh'rak	leh-sheh	leh-sheh-	leh-shehik
17	leh-steh	leh-steh'rak	leh-steh	leh-steh-	leh-stehik
18	leh-oh	leh-oh'rak	leh-oh	leh-oh-	leh-ohik
19	leh-nau	leh-nau'rak	leh-nau	leh-nau-	leh-nauyik
20	dah-leh	dahl'rak	dah-leh	dahl-	dah-lehik
30	reh-leh	rehl'rak	reh-leh	rehl-	reh-lehik
40	keh-leh	kehl'rak	keh-leh	kehl-	keh-lehik
50	kau-leh	kaul'rak	kau-leh	kaul-	kau-lehik
60	sheh-leh	shehl'rak	sheh-leh	shehl-	sheh-lehik
70	steh-leh	stehl'rak	steh-leh	stehl-	steh-lehik
80	oh-leh	ohl'rak	oh-leh	ohl-	oh-lehik
90	nau-leh	naul'rak	nau-leh	naul-	nau-lehik
100	teh	teh'rak	teh	teh-	tehik
200	dah-teh	dah-teh'rak	dah-teh	dah-teh-	dah-tehik

1,000	leh-teh	leht'rak	leh-teh	leht-	leh-tehik
᠑ ᠒᠒᠒	dah-leh-teh	dah-leht'rak	dah-leh-teh	dah-leht-	dah-leh-tehik
1,000,000	zhoh	zhoh'rak	zhoh	zhoh-	zhohik

### **Articles**

There is no definite article in GV. For example, the word "ek'zer" can mean "jewel" or "the jewel". Although this is confusing to many non-Vulcans, the Vulcans have no trouble because context dictates the intent. The use of indefinite articles (a, an) is rare in Modern Golic usage, normally used only for emphasis. In Traditional Golic, they are nearly always used unless understood or deemed superfluous.

### **Plurals**

Plurals are often understood through context or by the use of pluralizing words, such as a number. In those cases, the word does not change its form. A pluralizing direct suffix (~lar) exists in Golic Vulcan, but is often only used for emphasis or accuracy in Modern Golic, although it is required in Traditional Golic.

When a construction like "a flock of birds" or "a pod of whales" is used in FSE, the type of animal is pluralized. In GV, equivalent constructions are *not* pluralized, since the collective word automatically indicates there is more than one animal. For example, "treit t'kushel" (literally "flock of bird") or "kuht t'sehlat" (literally "herd of sehlat").

### **Cases**

There are no regular cases in GV. Reforms around the time of Surak dropped many irregularities that appeared in ancient Vulcan languages and simplified the speech. Surak's death led to a stagnation in language reforms, so all irregularities were not eliminated. Certain words, mostly pronouns, do have alternate forms for use in special situations. These pronouns seem to have dative or reflexive forms. For example, du means "you" while vu means something like "you-yourself". Most of these alternative forms are based on handed-down tradition.

### **Interrogatives**

Although many galactic languages have interrogative symbols, Vulcan does not -- there is no Vulcan question mark. "Yes or No" questions are formed by using the word "ha" at the very end of the sentence. Other questions are formed by using a questioning word like "wilat" (where) at the end of the sentence. To aid offworlders with the language, though, a question mark is often used in transliterated Vulcan (but never with true written Vulcan).

### **Invective Mode**

The invective mode is extremely rare in contemporary usage because of the distaste Vulcans feel in its use and even existence. This insulting or abusive mode of speech does not fit with the logical lifestyle and control of emotions that Vulcans embrace. In the pre-Surak world, its usage was common, but today it is only used by those who do not follow Surak's teachings, outlaws, those undergoing a difficult pon farr, and by the criminally insane. Gutterals are prefixed to nouns in usage and come in two forms: *Mild Invective* and *Severe Invective*. Mild is comprised of "khr" before a vowel sound and "khra" before a consonant sound; Severe is comprised of "khrikh" before a vowel sound and "khrikha" before a consonant sound. Never use these in speech with cultured Vulcans or you may find yourself committed to a psychiatric facility for testing. Because of their distaste, Vulcans simply refer to this as "Gutteral Mode", if they speak of it at all.

### **Honorifics**

In GV, there are a number of examples of one word used for normal usage and a variant used when



addressing or referring to something or someone "honored" or "greatly admired". This is to be expected in a culture such as that of Vulcan. In addition, the prefix "o" -- which has no exact FSE translation but "honorable" is considered closest in meaning -- is directly affixed to the word it modifies. Examples: "Osu", literally "honored person", but usually translated as "sir" or "madam", depending on the context; and "osavensu" (honored teacher), which is nearly always used in preference over "savensu" (teacher). The honorific prefix is especially common in Traditional Golic and lesser seen in Modern Golic.

### ***Modes of Speech***

In Modern Golic there is only one mode of speech, whereas there are three modes of speech in Traditional Golic: Superior, Normal and Inferior. One who is superior in standing to or much older than another person often uses the "Superior Mode" form of many words in speech. These words tend to be more ancient forms of words. In addition to using the older forms of words, superiors also tend to be more formal in their use of the language, not dropping out as much as the normal speaker does. Examples of this are that in "Superior Mode", one tends to use indefinite article and pluralizing suffixes most of the time, where in "Normal Mode" they are more often dropped. Throughout our material, we are concentrating on "Normal Mode", as that is the mode perhaps 90% of Vulcans use. "Inferior Mode" is mostly a leftover from the days before Surak. It is a very simplified form of the language that was previously used by slaves, common servants, those with low intelligence, and young children before entering school. Most Vulcans find this mode distasteful and it is now thought of mostly as an historical artifact. Since this is an introductory grammar and not a comprehensive guide, we will not go into this subject any further at this time.

**Verbs****Golic Vulcan Verbs  
Tor-Zhitlar Gol-Vuhlkansu****INTRODUCTION****Ragtaya**

In the Golic Vulcan languages, the verb takes only one form for all three persons, singular or plural, in a tense. There are three types of verbs in these languages: *Weak*, *Irregular Strong* and *Regular Strong*.

Weak Verbs are formed from a word root and the suffix "-tor". This form stays the same for all persons. Weak Verbs are the most common in Golic Vulcan.

Irregular Strong Verbs can take any form, such as estuhl (to touch) or pstha (to search), and are usually ancient words still in use or borrowings from other non-Golic languages. Like the Weak Verbs, they keep the same form in all persons.

Regular Strong Verbs all end with "au". They keep this infinitive form in all present and future tenses. In the past tenses, the ending changes to "al".

All three types of verbs are treated the same way in perfect past tense and the future tense. In the perfect past tense, the verb is prefixed with "ki". For example, sarlah means "to come" while ki'sarlah means "has come". In the future tense, all verbs either go by context or are preceded by helper words. In *Superior Mode* this is fa'wak (future). For example, fa'wak pehkau means "will stop" or "shall stop" (literally "future to stop"). In *Normal Mode*, these are "dungu" (will) or "dungau" (shall). For example, dungu-pehkau ("will stop") and dungau-pehkau ("shall stop"). "Dungu" and "dungau" are not hyphenated and affixed with Weak Verbs but are with both Strong Verbs.

**EXAMPLES OF VERB FORMS****Li-fallar t'Tor-zhit-shidlar****Weak Verbs (Normal Mode):****Gla-tor (to see)**

Gla-tor nash-veh (lit. sees this one) = I see

Gla-tor du = you (singular) see

Gla-tor ish-veh (lit. sees that one) = he/she/it sees

Gla-tor etek = we see

Gla-tor dular = you (plural) see

Gla-tor au = they see

Vesht gla-tor nash-veh = I saw, etc.

Ki'gla-tor nash-veh = I have seen, etc.

Kup gla-tor nash-veh = I am able to see, etc.

Kupi gla-tor nash-veh = I could see, etc.

Dungi gla-tor nash-veh = I will see, etc.

Dungau gla-tor nash-veh = I shall see, etc.

Kupi ki'gla-tor nash-veh = I could have seen, etc.

Dungi ki'gla-tor nash-veh = I will have seen, etc.

Vesht dungi ki'gla-tor nash-veh = I would have seen, etc.

Vesht kup gla-tor nash-veh = I was able to see, etc.

Dungi kup gla-tor nash-veh = I will be able to see, etc.

### **Irregular Strong Verbs (Normal Mode):**

#### **Sarlah (to come)**

Sarlah nash-veh = I come

Sarlah du = you (singular) come

Sarlah ish-veh = he/she/it comes

Sarlah etek = we come

Sarlah dular = you (plural) come

Sarlah au = they come

Vesht sarlah nash-veh = I came, etc.

Ki'sarlah nash-veh = I have come, etc.

Kup-sarlah nash-veh = I am able to come, etc.

Kupi-sarlah nash-veh = I could come, etc.

Dungi-sarlah nash-veh = I will come, etc.

Dungau-sarlah nash-veh = I shall come, etc.

Kupi ki'sarlah nash-veh = I could have come, etc.

Dungi ki'sarlah nash-veh = I will have come, etc.

Vesht dungi ki'sarlah nash-veh = I would have come, etc.

Vesht kup-sarlah nash-veh = I was able to come, etc.

Dungi kup-sarlah nash-veh = I will be able to come, etc.

### **Regular Strong Verbs (Normal Mode):**

**Pekhau (to stop)**

Pekhau nash-veh = I stop

Pekhau tu = you (singular) stop

Pekhau ish-veh = he/she/it stops

Pekhau etek = we stop

Pekhau tular = you (plural) stop

Pekhau au = they stop

Pekhal nash-veh = I stopped, etc.

Ki'pekhal nash-veh = I have stopped, etc.

Kup-pekhal nash-veh = I am able to stop, etc.

Kupi-pekhal nash-veh = I could stop, etc.

Dungi-pekhal nash-veh = I will stop, etc.

Dungau-pekhal nash-veh = I shall stop, etc.

Kupi ki'pekhal nash-veh = I could have stopped, etc.

Dungi ki'pekhal nash-veh = I would have stopped, etc.

Dungau ki'pekhal nash-veh = I should have stopped, etc.

Kup-pekhal nash-veh = I was able to stop, etc.

Dungi kup-pekhal nash-veh = I will be able to stop, etc.

***Punctuation***

In Golic Vulcan, there are five main marks used in punctuation:

" - " pakh (stroke) - used in affixing or compounding words, and in a sentence as a comma or semi-colon is used in FSE

" -- " dah-pakh (double-stroke) - used as a colon or long dash is used in FSE

" ' " ulef-pekha (half-stop) - used to separate prefixes from root words

" . " ek'pekha (full-stop) - used as a period is used in FSE

" .. " dah-pekha (double-stop) - used for emphasis, similar to an exclamation mark

Many Vulcans use what is called ek'pakh (full-stroke), a line about the length of three pakh marks, instead of dah-pakh. This is the older form and is preferred in literature or religious texts. The writings of Surak always use the ek'pakh instead of the dah-pakh. The dah-pakh was popularized by its use in the media script and we will use it here for typographic reasons.

As stated before, there is no question mark in Golic Vulcan. There are additional specialized symbols used in typography and science, but we will not discuss them in this particular material. A future page may focus on typographic and scientific symbols. Language Lesson 6 expands on the subject of punctuation.

## Traditional Golic Vulcan Example Phrases

### Li-falik Zhit-Ballar Ba-Gol-Vuhlkansu

The first 20 or so of the following phrases are direct dialogue from Star Trek motion pictures. They are followed by translated bits and pieces from various sources. The first line is the Traditional Golic Vulcan (TGV) phrase in Federation Standard alphabetical transliteration, the second line is the literal translation word for word from TGV, and the third line is the translation into Federation Standard English from the original subtitles. (If there is a fourth line, it is the revised subtitle text from the 2001 Director's Edition on DVD of *Star Trek: The Motion Picture*.) These phrases should prove educational to both linguists and students of Vulcan.

---

#### **Dakh orfik-kel aushfamaluhr shaukaush fi'aifa mazhiv**

*Cast-out ancestors animal passion(s) on-these sands*

Our ancestors cast out their animal passions here on these sands  
Our ancestors cast out their animal passions on these very sands...

---

#### **Sha'koshtri korseiven bai'elkhrul-akteiben t'Kolinahr**

*Own-race saved-by attainment of-Kolinahr*

Our race was saved by attainment of Kolinahr  
...saving our race through the attainment of Kolinahr.

---

#### **Kolinahr — k'fai'ei ek'zherka t'forti foshuhl**

*Kolinahr: Through-which all-emotion(s) finally shed*

Kolinahr: Through which all emotion is finally shed  
Kolinahr: Through which all emotion is renounced and shed.

---

#### **Zup-tor vu akarshif - Spahkh**

*Labor you-yourself a long time, Spock*

You have labored long, Spock  
You have labored for many seasons, Spock...and you have proved yourself worthy...

---

#### **I'poprah fasei setebuhk t'ovsot-olozhika**

*Now-receive this-here symbol of-total-logic*

Now receive from us this symbol of total logic  
To receive from us this symbol of pure logic.

---

#### **Nahp - hif-bi du throks**

*Thoughts - to-me you give*

Your thoughts, give them to me  
Your thoughts...give them to me

---

#### **Kashkau - Spahkh - wuhkuh eh teretuhr**

*Minds, Spock, one and together*

Our minds, one and together  
Our minds are joined, Spock...together, and as one.

---

#### **Tish hokni'es kwi'shoret —**

*To-you consciousness calling-from-afar . . .*

This consciousness calling to you from space . . .  
I sense the consciousness calling to you from space...

---

**Estuhl terrupik khaf - Spahkh***Touch(es) Earthling blood, Spock*

It touches your human blood, Spock

Your human blood is touched by it, Spock.

---

**Du vrvshal srashiv t'Kolinahr***You failed achievement of-Kolinahr*

You have not achieved Kolinahr

You have not yet attained Kolinahr.

---

**Ti kilko-srashiv kitok-wilat***Lies answer elsewhere*

His answer lies elsewhere

He must search elsewhere for his answer.

---

**I'tah tehrai k'etwel***Now-unobtainable goal with-us*

He will not achieve his goal with us

He shall not find it here.

---

**Dif-tor heh smusma - Spahkh***Live-long and prosper, Spock*

Live long and prosper, Spock

Live long and prosper, Spock.

---

**Gishen worla ik-banu***What-one-expects never the-one-of-which-I-speak*He's never what I expect

---

**Wakli ak'wikman - ot-lan?***In-what-manner surprises, lieutenant?*What surprises you, lieutenant?

---

**Ish'veh ni komin***That-one so human*He's so human

---

**Kling akhlami buhfik - Saavik-kam***Not-one among-us perfect, Saavik-(affection)*Nobody's perfect, Saavik

---

**Saavik wimish. Kup-stariben?***Saavik I-am-called. Able-to-speak?*I am Saavik. Can you speak?

---

**Dom - ki'sarlah***So, have-come*So, it has come

---

**Dungi tu sahrafel?***Will you trust?*Will you trust me?

---

---

**Kal-tor palikau***Allow to-commence*

Let it commence

---

**Ben vahl navun***To-us grant success*

Grant us success

---

**Du ki'avon-telik?***You have-hungered?*

Are you hungry?

---

**Vesht akarshif, lesh Vuhlkansu ulidar t'falek, t'salur mazhiv heh t'yon-dak yon-dukal. Sharush solektra yakul etek - salan tam-tor fi'urozh heh vok-tor kahrlar. Tusa na'kusut heh kali-tor na'rishan —***Past a long time, bear Vulcans mark of-heat, of-blow(ing) sand and of-burn(ing) sun. Open-up ground eat us - wind dance on-crops and level cities. Weep for-pain and fight for-survival . . .*

Ages past, Vulcans bore the mark of heat, the scar of blowing sand and burning sun. The ground opened to eat us, the wind danced on our crops and leveled our cities. We wept for the pain and we fought for survival

. . .

---

**Isha nash-veh Vuhlkansu - pontal na'sochya***Also this-one Vulcan, bred for-peace*

I too am a Vulcan, bred to peace

(Spock in "The Savage Curtain")

---

**Olozhika — palik t'kau ri shaht***Logic: Beginning of-wisdom not end*

Logic is the beginning of wisdom not the end

---

**Rubah — gehnli tor-bosh t'ek'nam***Change: Essential process of-all-existence*

Change is the essential process of all existence

---

**Tvai nam u'Vuhlkansu thanai ven-dol-tar - yut t'ha'kiv k'olozhika heh rufai-bosh. Ri kup-bau-tor ish ven-dol-tar goh na'sha'nazh-kap - zo-uf yauluhk ish nazh-kap.***Means existence as-Vulcan (to) adopt philosophy, way-of-life with-logic and beneficial. Not able-to-disregard that philosophy merely for-one's-own-gain - no-matter-how important that gain.*

To be Vulcan means to adopt a philosophy, a way of life which is logical and beneficial. We can not disregard that philosophy merely for personal gain - no matter how important that gain may be.

---

**Ri k'olozhika stau lof-fam***Not with-logic (to) kill reason-less*

It is illogical to kill without reason

---

**K'lof Vuhlkansu ved kup-stau - k'olozhika eh k'yeht-urgam***With-reason Vulcan quite able-to-kill - with-logic and with-efficiency*

If there were a reason, a Vulcan is quite capable of killing - logically and efficiently

(Spock in "Journey to Babel")

---

**Nar-tor tevakh - k'ken-tor kanok-ha'kiv sarlah na'shaht lu haishan wak. Goh kuv ish ha'kiv vesh'thinoi la'tusa pak-tan t'ha'kiv.**

*(To) Accept death - by-understand every-life come(s) to-end when demand(s) time. Only if that life was-wasted (to) mourn loss of-life.*

Accepting death - by understanding that every life comes to an end, when time demands it. Loss of life is to be mourned but only if the life was wasted.

(Spock in "Yesteryear")

---

**Pthak svi'zherka — dan-karik heh dan-khrashik**

*Fear amongst-emotions: most-strong and most-violent*

Fear is among the strongest and most violent of the emotions

(Spock in "Wolf In The Fold")

---

**Svi wonil kash-ral talik - Hassu - fi'tevakh ek yem-tor — ruhm kastik-goh-yokulsu**

*In strict sense scientific, Doctor, on-death all feed — even vegetarian(s)*

In a strict scientific sense, Doctor, we all feed on death — even vegetarians

(Spock in "Wolf In The Fold")

---

**Noshau u'dvinsular tum-vel ohrom heh yeht-urgam'es - nu ri aitlu ne'au dvin-tor**

*Stand(s) as-servants computer(s) excellent and efficient - but not wish under-them (to) serve*

Computers make excellent and efficient servants, but I have no wish to serve under them

---

**Tum-vellar weht yeht-urgam'es - ri weh-rom do kimihnsu**

*Computers more efficient - not better than human (beings)*

Computers are more efficient, not better than human beings

(Spock in "The Ultimate Computer")

---

**Kup-fai-tor ri ruhm Vuhkansu ri-Fainu**

*Able-to-know not even Vulcan(s) Unknown*

Not even Vulcans can know the Unknown

(Spock in "The Immunity Syndrome")

---

**Ri tvai thrap-tor - Osu - klosa ish-veh k'nel-dath siyah komihn**

*Not mean (to) offend, sir, behave(s) that-one with pattern almost human*

I do not mean to offend, sir, but it behaves with an almost human pattern

(Spock in "The Ultimate Computer")

---

**Sem-rik — zhit is-tor nash-veh na'ri-Gishu**

*Fascinating: word use(s) this-one for-Unexpected*

Fascinating is a word I use for the Unexpected

(Spock in "The Immunity Syndrome")

---

**Kluchi nash-veh na'kash-to-vel nahr-fam - kluchi na-tepul lof-torvauk-fam**

*Object(s) this-one to-intellect discipline-less; object(s) to-power constructive-purpose-less*

I object to intellect without discipline. I object to power without constructive purpose

(Spock in "The Squire of Gothos")

---

**Bolau fereik'es na'muhl'es t'vukhut**

*Need(s) creativity for-health of-body*

Creativity is necessary for the health of the body

(Spock in "Return of the Archons")



---

**Svi'wak mu'gel vesht akarshif - svi'wak fa'Surak - nagal sha'koshtri tevakh du sa-kai ki'stal sa-kai. S'eshikh ki'sarlah spes t'shaura eh t'utan'es - spes t'olozhika!**

*In-time dark past a-long-time, in-time before-Surak, faced our-race death while brother have-killed brother. From-desert have-come voice of-reason and of-compassion, voice of-logic!*

In the dark time long ago, in the time before Surak, our race faced death while brother killed brother. Out of the desert came a voice of reason and compassion, a voice of logic!

(Part of an old Vulcan benediction, derived from words spoken at Surak's memorial)

---

**Nam-tor u'sha'yut — tanaf heh ek'tal teretuhr. Ri utvau is-lof ri nam-tor vah vaksurik - tor vak'es k'kla-min tsuri weh-yeht-dau.**

*Exist(s) as-our-way: art and science united-together. No reason function not exist(s) as beautiful - make(s) beauty with-fact usual(ly) more-effective.*

It is our way - Art and Science combined. There is no reason that function should not be beautiful - in fact, beauty makes it more effective.

(Spock in "Spock's World")

---

**Ma ri ni sanosh-yehat vah aitlu. Nam-tor ri k'olozhika hi k'ashiv yeht.**

*(To) Have not so pleasurable as (to) want. Exist(s) not with-logic but often true.*

Having is not so pleasing as wanting. It is not logical, but it is often true.

(Spock in "Amok Time")

---

**Ma so-resh ri lof il utvau hi lau-ma tehrai**

*Has madness not purpose or reason but may-have goal*

Madness has no purpose or reason, but it may have a goal

(Spock in "The Alternative Factor")

---

**Kuv set-tor nash-veh mish-vel-raul fi'ek'tra k'vunai t'a'rak-ne-seshan - bolau ri gla-tor ish-veh tev-tor il zhu-tor solektra-kwul fai-tor k'kla-min ki'tev-tor**

*If drop(s) this-one wrench on-planet with-field of-positive-gravity - need not see that-one fall or hear ground-hit (to) know with-fact has-fallen*

If I drop a wrench on a planet with a positive gravity field, I need not see it fall, nor hear it hit the ground, to know that it has in fact fallen

(Spock in "Court Martial")

---

**Nam-tor zherka na'nash-veh u'akanik — nam-tor u'ek'talsu**

*Exist(s) emotion(s) to-this-one as-alien — exist(s) as-scientist*

Emotions are alien to me — I am a scientist

(Spock in "The Paradise Syndrome")

---

**Da-tor na'ain-wak tik t'etek svi'sha'ha'kiv na'ain-veh — wuh sa-mekh - sa-kai - ekon - heh ya'akash — Nash-veh la po? Nash-veh tvai-nam-tor u'ra?**

*Turns at-some-time each of-us in-our-life to-someone - a father, brother, god - and asks: This-one here why?*

*This-one meant-(to)-exist as-what?*

Each of us at some time in our life turns to someone - a father, a brother, a god, and asks: Why am I here?

What was I meant to be?

(Spock in "Star Trek: The Motion Picture")

---

**Spunau bolayalar t'Wekku bolayalar t'Zamu il t'Veh**

*Outweighs needs of-many needs of-few or of-the-one*

The needs of the many outweigh the needs of the few or the one

(Spock in "Star Trek: The Wrath of Khan", repeating Surak's alleged final words)

---

**Ki'nam-tor nash-veh heh kwon-sum dungau nam-tor t'hai'la t'du***Have-been this-one and always shall be friend of-you*

I have been and always shall be your friend

(Spock in "Star Trek: The Wrath of Khan")

**Wilat ri nam-tor zherka - ri nam-tor dvubolek na'khrash***Where not exist(s) emotion, not exist(s) motive for-violence*

Where there's no emotion, there's no motive for violence

(Spock in "Dagger Of The Mind")

**Nam-tor kusut u'vel t'kashek. Kup-putash-tor kashek.***Exist(s) pain as-thing of-mind. Can-be-controlled mind.*

Pain is a thing of the mind. The mind can be controlled.

(Spock in "Operation -- Annihilate!")

**Nam-tor nanlar u'riolozhika heh vlitaya tsuri kodonuhk***Exist(s) threats as-illogical and payment usual(ly) expensive*

Threats are illogical and payment is usually expensive

(Sarek in "Journey to Babel")

**Nam-tor wahtayalar u'yeht-daya wilat goh-pulayau zherka***Exist insults as-effective where only-to-be-present emotion*

Insults are effective only where emotion is present

(Spock in "Who Mourns For Adonais?")

**Ri pubau-tor velik tukhik to-gavlar. Ri nam-tor Nam rik'au.***Not to-be-ignored simply physical laws. Not exist(s) Existence without-them.*

Physical laws simply cannot be ignored. Existence cannot be without them.

(Spock in "Spectre Of The Gun")

***The First Two Movies*****Star Trek: The Motion Picture —  
Actual Spoken Dialogue vs. What Was Dubbed In Later**

The following phrases comprise the entire Vulcan dialogue from *Star Trek: The Motion Picture*. The scene where Spock goes to the plains of Gol to receive the symbol of total logic from Kolinahr Master, T'Sai, was originally recorded in English in an exaggerated speech style. We do not know for sure if they intended all along to dub in spoken Vulcan or if that was a later editorial decision. We do know for a fact, that one of the production staff shared this with us in an exclusive (as for as we know).

The first line is the original spoken dialogue in English, the second line is the corresponding spoken Vulcan from that segment, and the third line is the English sub-title that went with them. You will notice that they swapped the order of two sentences later to allow for a better "fit" with the dubbed Vulcan. The dubbing of this sequence was really rather brilliant — it looks like they are saying it. It only becomes clear when you mute the sound and see what is really being spoken. This should prove an interesting bit of motion picture history for dedicated fans. Enjoy!

**Here on these sands, our forebearers cast out their animal passions***Dakh orfik-kel aushfamaluhr shaukaush fi'aifa mazhiv*

Our ancestors cast out their animal passions here on these sands

---

**And our race was saved by the fullest attainment of Kolinahr***Sha'koshtri korseiven bai'elkhrul-akteiben t'Kolinahr*Our race was saved by attainment of Kolinahr

---

**The Kolinahr finally shed full emotions***Kolinahr — k'fai'ei ek'zherka t'forti foshuhl*Kolinahr: Through which all emotion is finally shed

---

**You have labored long, Spock***Zup-tor vu akarshif - Spahkh*You have labored long, Spock

---

**Now receive from us this symbol of total logic***I'poprah fasei setebuhk t'ovsot-olozhika*Now receive from us this symbol of total logic

---

**Stop! Give me your thoughts***Nahp - hif-bi du throks*Your thoughts, give them to me

---

**Our minds, Spock, one and together***Kashkau - Spahkh - wuhkuh eh teretuhr*Our minds, Spock, one and together

---

**This consciousness which calls . . .***Tish hokni'es kwi'shoret —*This consciousness calling to you from space . . .

---

**It stirs your human half, Spock***Estuhl terrupik khaf - Spahkh*It touches your human blood, Spock

---

**You have not achieved Kolinahr***Du vravshal srashiv t'Kolinahr*You have not achieved Kolinahr

---

**He will not achieve his goal with us***Ti kilko-srashiv kitok-wilat*His answer lies elsewhere

---

**His answer lies elsewhere***I'tah terai k'etwel*He will not achieve his goal with us

---

**Live long and prosper, Spock***Dif-tor heh smusma - Spahkh*

Live long and prosper, Spock

## **Star Trek: The Wrath of Khan — Actual Spoken Dialogue vs. What Was Dubbed In Later**

The following phrases comprise the entire Vulcan dialogue from *Star Trek: The Wrath of Khan*. The scene is where Spock and Saavik pause in the corridor to discuss her reaction to Admiral Kirk. The dialog was originally spoken in English and dubbed later with spoken Vulcan language created by Marc Okrand of Klingon language fame.

The first line is the original spoken dialogue in English, the second line is the corresponding spoken Vulcan from that segment, and the third line is the English subtitle that went with them. The dubbing of this sequence is quite good — it looks like they are saying it.

---

**He's not what I expect, sir**

*Gishen worla ik-banu*

He's never what I expect, sir

---

**What did you expect, lieutenant?**

*Wakli ak'wikman - ot-lan?*

What surprises you, lieutenant?

---

**He's very . . . human**

*Ish-veh ni — komin*

He's so . . . human

---

**We can't all be perfect, Saavik**

*Kling akhlami buhfik - Saavik-kam*

Nobody's perfect, Saavik

## Golic Vulcan Lessons Gol-Vuhlkansu Tupalar

Before beginning these lessons, we recommend that the student review our various grammar pages and the dictionaries.

### ***Lesson 1 -- Pronunciation***

## Golic Vulcan - Lesson 1 Gol-Vuhlkansu - Tupa 1

### PRONUNCIATION Salasharaya

Traditional and Modern Golic Vulcan vowel-sounds are pronounced as follows, using Federation Standard English (FSE) examples, except where noted.

Remember that FSE was based on the dominant Midwestern Dialect of North American English, the Earth language the Vulcans were originally exposed to at First Contact and which became the world-wide standard during recovery from the Post-Atomic Horror. For whatever reason, North America suffered the least, relatively speaking, during and after the various wars that culminated in the Last World War, and Vulcan-assisted recovery took its foothold in what was once the United States and Canada.

a -- as "a" in *ball* (nala, pstha, vath)

ah -- as "o" in *hot* if spoken about twice normal speed (dah, pahth, shaht)

ai -- as "i" in *nice* (aifa, kai, svai)

au -- as "ou" in *house* (ayau, kaukuh, maut)

e -- as "e" in *bed* (kep, lesek, senepa)

eh -- as the "e" in *yet* if spoken about twice normal speed (leh, nehg, sehlat)

ei -- as "a" in *same* (eitaui, nei, shei)

i -- as "ee" in *seem* (bling, dungi, mik)

ih -- as "i" in *hit* (ihn, kiht, pihl)

o -- as "o" in *home* (dom, nodolau, thol)

oh -- an "o" in throat with lips rounded, like a short Scandinavian "å" (ohkuh, spoh, woht)

oi -- as "oy" in *boy* (kroikah, sanoii, thinoi)

u -- as "oo" in *soon* (navun, salur, zup)

uh -- as "u" in *ugly* but with lips more rounded (natuhn, tuhk, wuhkuh)

Note: Doubling an individual vowel lengthens the sound, never changes it.

Golic Vulcan consonant sounds are nearly the same as their FSE counterparts. The only exceptions are:

ch -- always hard as "ch" in *cheese* (achut, isachya, kluchi)

kh -- close to the "ch" in German *Bach* or Scottish *loch* (ahkh, dakh, khush)

th -- always hard like "th" in *thank* (kethtra, math, thonek)

y -- always a consonant, as "y" in *yellow* (daya, sayek, yel)

zh -- like the second "g" in *garage* (bezhun, di'kizh, zhit)

Although doubled consonants are not common in Golic Vulcan, when they do occur, they are pronounced as follows:

ll -- drawn out, often slightly trilled (d'mallu)  
mm -- at the end of a word, almost like "muh" (samm)  
nn -- at the end of a word, almost like "nuh" (stonn)  
rr -- drawn out, often slightly rolled (harr)  
ss -- drawn out, almost like a slight hiss (tessaya)

Note: Doubled consonants are fairly common in other Vulcan languages.

Golic Vulcan includes consonant combinations that never occur in FSE. Since there are no silent letters in Golic Vulcan words, you must pronounce all letters. For example:

fnesh -- try saying "fuh-nesh" but as one syllable.  
khlup -- try saying "khuh-lup" but as one syllable.  
khrash -- try saying "khuh-rash" but as one syllable.  
ktrorr -- try saying "kuh-torr" but as one syllable.  
pstha -- try saying "puhs-tha" but as one syllable.  
sfith -- try saying "suh-fith" but as one syllable.  
vlitau -- try saying "vuh-litau" but together.  
vravshau -- try saying "vuh-ravshau" but together.

All these examples show the consonant combinations at the beginning of an example word, but they may appear in the middle of a word as well. Of these, spelling rules allow only "kt" to appear at the end of a Golic Vulcan word, though.

In all words with apostrophes, such as di'kizh or pi'sef, whether they are an individual word or a word with a prepositional prefix, the apostrophe is pronounced as a glottal stop. The word segments must never be run together, there is a definite break in pronunciation in the word. In all words with hyphens, regardless of whether they are a compound word or an affixed word, the hyphen is not pronounced per se, but you must take care not to run the parts of the word together. Therefore, many hyphenated words can sound like there is a very short glottal stop between their segments.

***Lesson 2 -- Introduction to Words - Simple Words*****Golic Vulcan - Lesson 2  
Gol-Vuhlkansu - Tupa 2****INTRODUCTION TO WORDS - SIMPLE WORDS  
Ragtaya na'Zhitlar - Veli-Zhitlar**

This basic lesson is an introduction to "Simple Words" in Golic Vulcan. These are basically all words in use by Golic Vulcan speakers that are a "single, indivisible unit". These words can be anywhere from very ancient to very new in formation. They also may include words borrowed from other languages. The information on this page works for both Traditional and Modern Golic. The following are selected examples to introduce the student to Golic Vulcan words:

**Ancient and Borrowed Simple Words  
Ma'os heh Yahvik Veli-Zhitlar**

Ahkh - borrowed word for "war", appears as 'ahkh in some other Vulcan languages  
 Ask'er - borrowed word for "soldier"  
 Balkra - ancient word for a type of aromatic casserole  
 Batai - ancient word for "sturdy"  
 D'mallu - ancient word for a type of carnivorous plant  
 Dzharal - borrowed word for an extinct small, horned, horse-like animal; appears as jarel in some other Vulcan languages  
 Ek'zer - ancient word for "gem" or "jewel", originally a compound word  
 Farr - ancient word for "time", now considered obsolete and only used poetically in Golic Vulcan  
 Fo - ancient word for "shell"  
 Glozho - ancient word for "elixir"  
 Haran - borrowed word for a legendary "fire beast"  
 K'torr - ancient word for the concept of completely lacking something  
 Ki'haf - ancient word for "basket", originally a compound word  
 Krahkra - ancient Vulcan-wide term meaning roughly "it is nothing"  
 La'ash - ancient word for "axe"  
 Mu'yor - ancient word for "night", originally a compound word  
 Nikh - ancient word for "eye", now considered obsolete and only used poetically in Golic Vulcan  
 Orniaga - ancient word for "irritated", often considered obsolete to modern, logical Vulcans  
 Ro'fori - ancient word for "information", originally a compound word  
 Seheik - borrowed word for "pilgrims", originally meant "declared ones"  
 Te'koshfet - ancient word for "architect", originally a compound word  
 Urozh - ancient word for "crop(s)"  
 Visak'a - ancient word for "legacy"  
 Waneti - borrowed word for a type of flowering plant  
 Ya'akash - ancient word for "to ask"  
 Zherka - ancient word for "emotions"

**True Golic Simple Words  
Yeht-Golik Veli-Zhitlar**

Aluk - fish

Ashau - to love  
Behsu - neighbor  
Dohn - board, plank  
Ek'an - maximum  
Faka - hernia  
Fonn - loyal  
Gehkli - essential  
Gonaf - button  
Halek - wheel  
Igen - sky  
Khrash - violence  
Mashya - a type of vegetable  
Nakarat - endeavor  
Pelakh - filament  
Rivak - course  
Shaik - odd  
Su'us - number  
Temok - wall  
Vikuvau - to encircle, to surround  
Yerak - bowl  
Zakar - damage

### **Notes**

#### **Pitohlar**

1. Simple Words are always "indivisible", meaning that breaking them apart will not leave two or more stand-alone word roots with a contemporary Golic Vulcan meaning.
2. Older Simple Words may have been a Compound Word at some point in the past, but can no longer be broken down to word roots with separate meanings in Golic Vulcan.
3. Ancient Simple Words may or may not be directly related to Golic Vulcan.
4. Simple Words in Golic Vulcan that were borrowed from another language may still be a valid Compound Word in the other language, but are considered "Simple" to Golic speakers, because the separate parts are meaningless in Golic Vulcan.
5. Simple Words never contain a "hyphen" (pakh) but can contain an "apostrophe" (ulef-pekhaya).
6. Simple Words may be affixed with any combination of a prefix, a suffix or both.

Additional information and examples are provided in following lessons.



***Lesson 3 -- Introduction to Words - Compound Words*****Golic Vulcan - Lesson 3  
Gol-Vuhlkansu - Tupa 3****INTRODUCTION TO WORDS - COMPOUND WORDS  
Ragtaya na'Zhitlar - Terti-Zhitlar**

This simple lesson is a grammatical introduction to "Compound Words" in Golic Vulcan. These are basically all words used by Golic Vulcan speakers that are made up of two or three base word roots. These words can be anywhere from very ancient to very new in formation. They also may include words borrowed from other languages. The information on this page works for both Traditional and Modern Golic. The following are selected examples to introduce the student to Golic Vulcan words:

**Ancient and Borrowed Compound Words  
Ma'os heh Yahvik Terti-Zhitlar**

Ahn-wun - ancient Vulcan-wide name for a traditional weapon  
 Ba-tak - borrowed word for "tradition", no separate meanings in GV  
 Dap-lan-pa - ancient children's game  
 Fal-tor-pan - ancient ceremony to rejoin the body and katra  
 Fnu-ven - ancient word for "hatred"  
 Ka-ni-fur - ancient term for the first ritual of maturity  
 Kar-an-zhi - ancient word for a cactus-like plant, written "ka-ranji" in other Vulcan languages  
 Le-matya - ancient Vulcan-wide name for a large, desert predator  
 Norn-la-hal - ancient term for the change of status from child to adult  
 Sele-an-t'li - ancient term for the secondary level of adult discipline  
 Tab-ma - ancient word for "late"  
 Ven-dol-tar - ancient term for "philosophy"

**True Golic Compound Words  
Yeht-Golik Terti-Zhitlar**

Asal-yem - breakfast, literally "morning meal"  
 Bezhun-masu - tear(s), literally "eye water"  
 Dah-wak - twice, literally "two times"  
 Esh-tukh - oxygen, literally "breathe stuff"  
 Fa-wak-glansu - prophet, literally "future seer"  
 Fnash-vel - broom, literally "sweep thing"  
 Ifis-tor - to transport, literally "transport to do"  
 Kahm-yokulsu - carnivore, literally "meat-eater"  
 Kastik-goh-yokulsu - vegetarian, literally "plant-only-eater"  
 Mahr-kel - market or store, literally "buy-building"  
 Numo-zan-vel - microscope, literally "microscopic-view-thing"  
 Pi'nafek - gland, literally "small-organ"  
 Ralash-tanaf - music, literally "sound-art"  
 She'rak - east, literally "rise-direction", referring to the sunrise  
 Shi'dunap - library, literally "place of the book(s)"  
 Wuh-thurai - the next one, literally "one-next"

**Notes  
Pitohlar**

1. Ancient Compound Words may possibly be broken down into stand-alone word roots with a contemporary Golic Vulcan meaning but, more often than not, some of the roots may have shifted in meaning over time and other parts may no longer have any meaning.
2. Ancient Compound Words may or may not be directly related to Golic Vulcan.
3. Compound Words in Golic Vulcan that were borrowed from another language may be broken down into separate roots in the other language, but the separate parts are usually meaningless in Golic Vulcan.
4. Compound Words may contain a "hyphen" (pakh), "apostrophe" (ulef-pekhaya), or any combination of neither or both.
5. *Compound Words may contain no more than three hyphenated word roots in Golic Vulcan.* This is an ironclad grammar rule in all Golic Vulcan languages. A compound word of two roots is called a "Binary Compound" and a compound word of three roots is called a "Trinary Compound". The rule of three hyphenated roots does not exclude grammatical affixes, such as prepositions.
6. Compound Words made up of two hyphenated roots (Binary Compound) may be affixed with one other root to make a Trinary Compound and/or may be affixed with any combination of a grammatical prefix, suffix or both.
7. Compound Words made up of three hyphenated roots (Trinary Compound) *may not* be affixed with another word root, but *may* be affixed with any combination of a grammatical prefix, suffix or both.

Additional information and examples are provided in following lessons.

**Lesson 4 -- Noun-Verb Pairs****Golic Vulcan - Lesson 4  
Gol-Vuhlkansu - Tupa 4****NOUN-VERB PAIRS  
Shiflar t'Vel-Zhit - Tor-Zhit**

This lesson is a grammatical introduction to noun-verb pairs in Traditional and Modern Golic Vulcan. Following regular patterns found in many verbs, it is often easy to determine what the corresponding noun form of the word is. It does not work as easily when going from the noun to the verb, as we will show below. The Golic Vulcan languages are languages with millennia of history behind them and have had many borrowings from other Vulcan languages. Changing technology and language reforms, left incomplete after Surak's death, have also changed the use or form of some words over time.

**Notes****Pitohlar**

All verbs in Golic Vulcan have a corresponding noun form and vice versa. Unlike many Federation Standard English words where the noun and the verb are the same word, for example, "like", "hate", etc., it is practically unheard of in the Golic Vulcan languages to see this. Vulcans accept the logic of the words of the famous ancient grammarian Tenek of Shi'Han, whose first words to every new class of students was simply, "Na'natya is - natya shid." ("For different use, a different form.")

Below are several charts showing examples of different kinds of noun-verb pairs.

**Pairs From Weak Verbs****Shiflar t'Kobat-Tor-Zhitlar**

<b>Verb Form</b>	<b>Noun Form</b>
Ashiv-tor (to repeat)	Ashiv (repeat/repetition)
Fulag-tor (to lead)	Fulag (lead, as in a race)
Is-tor (to use)	Is (use)
Kras-tor (to paint)	Kras (paint)
Kum-tor (to catch)	Kum (catch)
Mahr-tor (to buy)	Mahr (buy)
Min-tor (to glow)	Min (glow)
Tam-tor (to dance)	Tam (dance)
Zhu-tor (to hear)	Zhu (hearing)

**Noun-Verb Pairs -- "Regular" Weak Verbs**

Although this looks childishly simple and you would be tempted to assume all weak verbs pair this way, this is not the case. Because of confusion with another similar word or for phonic clarity, the root of many weak verbs is actually "clipped off". If you simply removed the "-tor" action suffix of these

"clipped" weak verbs, the remaining "noun" *could* mean something unrelated to the verb or even nothing at all. For example, "da" means "pebble" -- the noun partner of "da-tor" is "dan" (see below).

Also, it is possible to find a shade or difference in meaning in different endings of nouns, compared to the corresponding verbs. Study the large vocabulary lists on our site to note these differences.

Verb Form	Noun Form
Da-tor (to rotate)	Dan (rotation)
Gla-tor (to see)	Glan (sight)
She-tor (to ascend)	Shen (ascent)
Tev-tor (to descend)	Tevan (descent)
Zahv-tor (to taste)	Zahvan (taste)

#### Noun-Verb Pairs -- "Clipped" Weak Verbs

As you can see, though, all of the "clipped" examples are suffixed "~n" (after a vowel) or "~an" (after a consonant). In the future, when translating Golic Vulcan weak verbs, remember this pattern, as it holds true for most cases. Therefore, if you come across a weak verb like "klu-tor" or "zan-tor" and cannot find a corresponding noun "klu" or "zan" with the right meaning, try "klun" or "zanan".

#### Pairs From Irregular Strong Verbs Shiflar t'Ripakhaik Kari-Tor-Zhitlar

Verb Form	Noun Form
Aitlu (to desire)	Aitlun (desire)
Estuhl (to touch)	Esta (touch)
Foshuhl (to shed)	Fosha (shedding)
Ip-Sut (to hide)	Ip-Sui (hiding)
Klacha (to lock)	Klachek (lock)
Lasha (to arrive)	Lashan (arrival)
Pstha (to search)	Psthan (search)
Salur (to blow)	Sal (blow, as in wind)
Shei (to scream)	She (scream)
Thanai (to adopt)	Thanah (adoption)
Vlur (to howl)	Vlu (howl)/Vlun (howling)
Yokul (to eat)	Yoka (eating)

#### Noun-Verb Pairs -- Irregular Strong Verbs

Irregular strong verbs cause the most confusion to students of the Golic Vulcan languages. This is because these verbs are usually ancient words and/or words from non-Golic Vulcan languages. The rules for Golic Vulcan word formation often do not have any meaning here. Surak and others had intended to smooth out these irregularities gradually over time, but Surak's death prevented the

reforms from being completed. There are patterns here, of course, but they are based on the grammatical rules of the parent language. Students of Golic Vulcan will have to memorize these words.

**Pairs From Regular Strong Verbs**  
**Shiflar t'Pakhaik Kari-Tor-Zhitlar**

<b>Verb Form</b>	<b>Noun Form</b>
Betau (to approach)	Betaya (approach)
Danau (to explain)	Danaya (explanation)
Kitau (to write)	Kitaya (writing)
Tishau (to like)	Tishaya (like/liking)
Vravshau (to fail)	Vravshaya (failure)

**Noun-Verb Pairs -- Regular Strong Verbs**

As is plain to see, all regular strong verbs have a noun partner with a fixed pattern of formation. Of course, some of these kinds of verbs have additional nouns based on the same root with other forms for different shades of meaning. Students will need to study the vocabulary lists for examples of these.

**Lesson 5 -- Introduction to Numbers****Golic Vulcan - Lesson 5  
Gol-Vuhlkansu - Tupa 5****INTRODUCTION TO NUMBERS  
Ragtaya na'Su'uslar**

Traditional and Modern Golic Vulcan numbers come in five different types: Cardinal, Ordinal, Enumerating, Combining (Form) and Adjectival (Form). Each type is introduced in this grammar lesson. Later lessons will go more into depth on how these types are used grammatically.

**CARDINAL NUMBERS**

Unlike in Federation Standard English (FSE), where a Cardinal Number is used both for counting and for indicating how much of an item there is, in Golic Vulcan, a Cardinal Number is used for counting (one, two, three, four, etc.) and when you use it like a noun (for example, "I am *one* of many", etc.).

FSE	TGV/MGV
1	wuhkuh
2	dahkuh
3	rehkuh
4	kehkuh
5	kaukuh
6	shehkuh
7	stehkuh
8	ohkuh
9	naukuh
10	lehkuh
11	leh-wuh
12	leh-dah
13	leh-reh
14	leh-keh
15	leh-kau
16	leh-sheh
17	leh-steh
18	leh-oh
19	leh-nau
20	dah-leh
25	dah-leh kaukuh

30	reh-leh
40	keh-leh
50	kau-leh
60	sheh-leh
70	steh-leh
80	oh-leh
90	nau-leh
100	teh
150	teh kau-leh
200	dah-teh
1,000	leh-teh
1,500	leh-teh kau-teh
2,000	dah-leh-teh
1,000,000	zhoh

**Table of Cardinal Numbers****ORDINAL NUMBERS**

In Golic Vulcan, Ordinal Numbers are used in almost the identical way as their counterparts in FSE. A following lesson covers use of this form in sentences.

<b>FSE</b>	<b>TGV/MGV</b>
1st	wuh'rak
2nd	dah'rak
3rd	reh'rak
4th	keh'rak
5th	kau'rak
6th	sheh'rak
7th	steh'rak
8th	oh'rak
9th	nau'rak
10th	leh'rak
11th	leh-wuh'rak
12th	leh-dah'rak
13th	leh-reh'rak
14th	leh-keh'rak
15th	leh-kau'rak
16th	leh-sheh'rak
17th	leh-steh'rak

18th	leh-oh'rak
19th	leh-nau'rak
20th	dahl'rak
25th	dah-leh kau'rak
30th	rehl'rak
40th	kehl'rak
50th	kaul'rak
60th	shehl'rak
70th	stehl'rak
80th	ohl'rak
90th	nau'l'rak
100th	teh'rak
150th	teh kaul'rak
200th	dah-teh'rak
1,000th	leht'rak
1,500th	leh-teh kau-teh'rak
2,000th	dah-leht'rak
1,000,000th	zhoh'rak

**Table of Ordinal Numbers**

## ENUMERATING NUMBERS

In Golic Vulcan, a form different from the Cardinal Numbers is used when counting how many of an item there is, for example, "there is *one* ball" and "Surak sees *two* possibilities". The Enumerating Number is also used when answering a question where a specific quantity is the response or when filling out a form that needs a numerical response filled in. Some Enumerating Numbers are the same as their corresponding Cardinal Numbers, especially the higher numbers.

FSE	TGV/MGV
1	wuh
2	dah
3	reh
4	keh
5	kau
6	sheh
7	steh
8	oh
9	nau
10	leh
11	leh-wuh



12	leh-dah
13	leh-reh
14	leh-keh
15	leh-kau
16	leh-sheh
17	leh-steh
18	leh-oh
19	leh-nau
20	dah-leh
25	dah-leh kau
30	reh-leh
40	keh-leh
50	kau-leh
60	sheh-leh
70	steh-leh
80	oh-leh
90	nau-leh
100	teh
150	teh kau-leh
200	dah-teh
1,000	leh-teh
1,500	leh-teh kau-teh
2,000	dah-leh-teh
1,000,000	zhoh

Table of Enumerating Numbers

### COMBINING (FORM) NUMBERS

In Golic Vulcan, as you will learn more fully in following lessons, when numbers are used as a combining adjective or as a modifying prefix, they are directly affixed to a word if the word is a solitary or basic word ("psthan", "skladan", "tchorka", etc.) or a binary word ("esh-tukh", "tal-muv", "yeht-gav", etc.) AND the Combining Form is a single affix. Corresponding examples of these forms in FSE would be "mono-", "uni-", "single-", "two-", "bi-", "di-", "double-", "tri-", "triple-", etc.

FSE	TGV/MGV
1	wuh-
2	dah-
3	reh-
4	keh-
5	kau-

6	sheh-
7	steh-
8	oh-
9	nau-
10	leh-
11	leh-wuh-
12	leh-dah-
13	leh-reh-
14	leh-keh-
15	leh-kau-
16	leh-sheh-
17	leh-steh-
18	leh-oh-
19	leh-nau-
20	dahl-
25	dah-leh kau-
30	rehl-
40	kehl-
50	kaul-
60	shehl-
70	stehl-
80	ohl-
90	naul-
100	teh-
150	teh kaul-
200	dah-teh-
1,000	leht-
1,500	leh-teh kau-teh-
2,000	dah-leht-
1,000,000	zhoh-

Table of Combining Form Numbers

Important Note: Combining Form Numbers must follow the word formation rules that dictate you cannot have more than three roots in a single word. For example, you can't have "leh-wuh-tal-muv" or "leh-dah-os-khaf-mev". Therefore, only the numbers one through ten, one hundred, one thousand, and one million are used regularly in Combining Form in proper Golic grammar. (The next form covers all other grammatical uses of adjectival or modifying numbers.)

**ADJECTIVAL (FORM) NUMBERS**

The Adjectival Form numbers are used exactly the same as a true adjective. Refer to later lessons which show how adjectives are used. Remember not to confuse them with the Ordinal Numbers.

<b>FSE</b>	<b>TGV/MGV</b>
1	wuhik
2	dahik
3	rehik
4	kehik
5	kauyik
6	shehik
7	stehik
8	ohik
9	nauyik
10	lehik
11	leh-wuhik
12	leh-dahik
13	leh-rehik
14	leh-kehik
15	leh-kauyik
16	leh-shehik
17	leh-stehik
18	leh-ohik
19	leh-nauyik
20	dah-lehik
25	dah-leh kauyik
30	reh-lehik
40	keh-lehik
50	kau-lehik
60	sheh-lehik
70	steh-lehik
80	oh-lehik
90	nau-lehik
100	tehik
150	teh kau-lehik
200	dah-tehik
1,000	leh-tehik
1,500	leh-teh kau-tehik
2,000	dah-leh-tehik

1,000,000	zhohik
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**Table of Adjectival Form Numbers**

**Lesson 6 -- Punctuation****Golic Vulcan - Lesson 6  
Gol-Vuhlkansu - Tupa 6****PUNCTUATION  
Pehkamitaya**

In this lesson, we cover each Golic Vulcan punctuation mark and provide examples of its use with FSE translations. There are no exercises with this lesson.

As we'll see, Golic Vulcan sentence construction is different from that of FSE. Despite the differences, Golic Vulcan has a number of punctuation marks equivalent to those used in FSE. Listed below are all of the punctuation marks used in Traditional and Modern Golic Vulcan. For clarity, examples of use are provided where necessary.

" - " PAKH (stroke)

A very common mark used in affixing or compounding words, weak verbs, and in a sentence as a comma or semi-colon is used in FSE. Also exists in borrowed or ancient words that were originally affixed or compounded but no longer have a separate meaning.

1. In suffixes: kan-fam or pthak-bosh.
2. In compound words: esh-tukh or yokul-mev.
3. In weak verbs: fal-tor or vin-tor.
4. In ancient or borrowed words: fah-yat or rau-nol.
5. As a comma: Vesht gla-tor Sonok kus-vakh - dunap - ha'fek heh math (Sonok saw a bell, book, candle and plate), etc.
6. As a semicolon: Ma sa-kan dukal heh kep - ko-kan mokuv heh leitri (The boy owns a ball and a gong; the girl a ring and a toy), etc.

" – " or " -- " DAH-PAKH (double-stroke)

Used as a colon or dash is used in FSE.

1. As a colon: Nam-tor la reh Vuhlkansu – Sarek - Spokkh heh Saavik (There are three Vulcans here: Sarek, Spock and Saavik), etc.
2. As a dash: Olozhika - fai-tukh heh kenan – nam-tor u'vellar etek saven-tor (Logic, knowledge and understanding—these are the things we teach), etc.

" — " or " --- " EK'PAKH (full-stroke)

Used instead of the dah-pakh in classical literature, such as the works of Surak and T'Plana-Hath, and the majority of other religious and philosophical works. It has been superceded in most modern usage by the dah-pakh for typographic reasons, due to popularity of the media script. Also, equivalent to the ellipsis (... or ....) in FSE usage.

1. Instead of the dah-pakh in literature: >Ma etek natyan — teretuhr lau etek shetau weh-lo'uk do tum t'on.< ("We have differences. May we, together, become greater than the sum of both of us."—Surak)

2. As an ellipsis: >Tishau etek — nam-tor ish — kuv ri pohkau du —< ("We'd like to . . . that is . . . if you don't mind . . .")

" ' " ULEF-PEKHAYA (half-stop)

A common mark used to separate affixes from root words. Also exists in some borrowed or ancient words that were once affixed or compounded but no longer have a separate meaning.

1. In prefixes: t'kau or svi'nahr.
2. In suffixes: hokni'es or pla'rak.
3. In ancient or borrowed words: vo'ekti.

" . " EK'PEKHAYA (full-stop)

Used as a period is used in FSE.

" .. " DAH-PEKHAYA (double-stop)

Used for emphasis and in imperatives, equivalent to an exclamation point in FSE. It is used sparingly by most modern Vulcans due to the fact that it evokes emotional displays. For example, the dialogue of Vulcan characters in a story would practically never contain dah-pehkaya, while the dialogue of non-Vulcans certainly could.

1. In exclamations: Sarlah wuh le-matya.. (There is a le-matya coming!)
2. In imperatives: Ikap-tor du svep.. (Close the door!)

" ... " REH-PEKHAYA (triple-stop)

Used for greater emphasis than the dah-pehkaya, similar to multiple exclamation points in FSE.

Tuhsau Rihansular Ta'raf-Shal... (The Romulans are crossing the Neutral Zone!!!)

" | " ABRU-PAKH (up-stroke)

Used as a virgule (/) is used in FSE. (But the structure "and/or" in FSE is rendered as "il-eh" in Golic Vulcan.)

Orenal T'Luki terrupik wak-krus 1999|2000 (T'Luki studied the Earth period 1999/2000).

" | | " TUHNSK-NENTULAR (comment frames) or WUH-NENTULAR (single frames)

Used as parentheses are used in FSE.

Dungi nam-tor keh os-yel-hali | ek s'kadvin | moguhshau (Four old starships (all out of commission) will be scrapped).

" || | | " DAH-NENTULAR (double frames)

Used as brackets are used in FSE.

Vesht sarlah nemut | Kardassular || il sos'eh Dzhem-Hadaru || | (The enemy (the Cardassians [or perhaps the Jem-Hadar]) arrived).

" > < " STARUN-NENTULAR (speech frames)

Used as quotation marks (double quotes) are used in FSE.

Vesht tar-tor Surak >Nam-tor ri thrap wilat nem-tor rim<. (Surak said, "There is no offense where none is taken.")

#### Additional Notes

##### Hayaik Pitohlar

1. As stated elsewhere, there is no question mark in Traditional Golic Vulcan. A normal question ends with ek'pehkaya in sentences with or without ha at the end. Also, where you would use a construction like "What in the world are you talking about?!?" in FSE, you'd end the emphatic Golic Vulcan question with dah-pehkaya. For example, >Svi'ahm t'Surak ra..< ("What in Surak's name?!?")
2. No other punctuation marks exist in proper Golic Vulcan. Thus, there are no equivalent symbols to the ampersand (&), the number sign (#), braces ({}), the swung dash (~), etc.
3. Specialized symbols exist for science and mathematics, of course. They may be dealt with at a later date.

**Lesson 7 -- The Simple Sentence, Part 1****Golic Vulcan - Lesson 7  
Gol-Vuhlkansu - Tupa 7****THE SIMPLE SENTENCE, PART 1  
Velik Zhit-Bal - Krus 1**

Vocabulary  
Zhit-Feim

Nash-veh *I, me (literally "this-one")*  
 Du *You (singular; alone or after a consonant sound)*  
 Tu *You (singular; after a vowel sound)*  
 Ish-veh *he, she, it (literally "that-one")*  
 Etek *we, us (normal mode)*  
 Dular *you (plural; alone or after a consonant sound)*  
 Tular *you (plural; after a vowel sound)*  
 Au *they, them*

Nam-tor *is, am, are*  
 Gla-tor *see, sees*

Eh *and (after a vowel sound)*  
 Heh *and (alone or after a consonant sound)*  
 Hi *but*  
 Fi' *on*  
 Na' *at, to(wards)*  
 Svi' *in(side)*

Fi'ar'kadan *working, at work*  
 Masupik *wet*  
 Nash-gad *today*  
 Nesh-kur *black*  
 Pi, Pi' *little, small*  
 Samek *cold*  
 Suk, Suk' *big, large*  
 Toranik *busy, occupied*  
 Wan-kur *white*  
 Zungor *tired*

Falek *heat*  
 Isachya *hair (multiple strands)*  
 Le-matya *a large, venomous desert predator*  
 Sehlat *a bear-like, often domesticated, animal*  
 Solai *field*  
 Slep *door*  
 Teresh-kah *a type of bird*  
 Yon *fire*



Sonok *a male Vulcan proper name*  
 T'Luki *a female Vulcan proper name*

Notes  
 Pitohlar

1. The formal order of words in a simple Golic Vulcan sentence is:
  - a. the Verb
  - b. the Subject
  - c. the Object
  - d. phrases that extend the Verb

*For example:*

Vesht gla-tor nash-veh sehlat na'svep  
 (Saw this-one sehlat at-door)  
*I saw a sehlat at the door*

2. There is no definite article in Golic Vulcan, e.g. "sehlat" can be translated *sehlat* or *the sehlat*.
3. The indefinite article (wuh) is always used in Traditional Golic Vulcan, while it is rarely used in Modern Golic Vulcan. For this lesson we will use the Modern Golic usage. Thus, "le-matya" can be either *le-matya* or *a le-matya* in Modern Golic, while in Traditional Golic, "le-matya" is *le-matya* and "wuh le-matya" is *a le-matya*.
4. Simple Verbs, especially "nam-tor" (to be), are often dropped when understood or unnecessary, e.g. "Nam-tor sehlat la" and "sehlat la" both can be translated *the sehlat is here*.

Exercise 1  
 Tusok 1

Translate the following into Federation Standard English:

1. Sehlat nesh-kur. 2. Le-matya wan-kur. 3. Sehlat nesh-kur hi le-matya wan-kur. 4. Sehlat pi. 5. Le-matya suk. 6. Sehlat pi hi le-matya suk. 7. Le-matya na'svep heh sehlat na'yon. 8. Svep pi eh yon suk. 9. Nam-tor falek svi'yon. 10. T'Luki pi. 11. Sonok suk. 12. Sonok heh T'Luki fi'ar'kadan. 13. Nash-gad Sonok heh T'Luki fi'ar'kadan svi'solai. 14. Au toranik svi'solai. 15. Du toranik. 16. Dular zungor. 17. Nam-tor nash-gad masupik. 18. Sonok heh T'Luki masupik heh samek.

Exercise 2  
 Tusok 2

Translate the following into Golic Vulcan:

1. The le-matya is white. 2. The sehlat is black. 3. The le-matya is white but the sehlat is black. 4. The le-matya is big. 5. The sehlat is small. 6. The le-matya is big but the sehlat is small. 7. The sehlat is at the fire and the le-matya is at the door. 8. The fire is big and the door is small. 9. There is heat in the fire. 10. Sonok is big. 11. T'Luki is small. 12. T'Luki and Sonok are working. 13. T'Luki and Sonok are working in the field today. 14. They are busy in the field. 15. You (singular) are tired. 16. You (plural) are busy. 17. Today is wet. 18. T'Luki and Sonok are wet and cold.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 8 -- The Simple Sentence, Part 2****Golic Vulcan - Lesson 8  
Gol-Vuhlkansu -- Tupa 8****THE SIMPLE SENTENCE, PART 2  
Velik Zhit-Bal - Krus 2**

Vocabulary  
Zhit-Feim

Refer to the vocabulary used in Lesson 1.

Notes  
Pitohlar

1. Most True Adjectives in Golic Vulcan have two separate forms:
  - a. Combining Form -- which is directly affixed to the modified Noun
  - b. Non-Combining Form -- which is not affixed to the modified Noun

For example:

"Nesh-" is the Combining Form of *black*, whereas "nesh-kur" is the Non-Combining Form.  
"Pi" is the Combining Form of *small*, whereas "pi" is the Non-Combining Form.

The student of Golic Vulcan will learn the rules of formation through practice and later lessons.

2. The two forms of adjectives are used differently in Golic Vulcan:
  - a. Combining Adjectives always prefix the modified noun, which alters its meaning, e.g. "sehlat" is the generic term for the animal, whereas "nesh-sehlat" (black sehlat) is a particular species of the sehlat.

Only one Combining Adjective may be attached to most nouns; additional modifiers must be Non-Combining.

b. Non-Combining Adjectives may precede or follow the modified noun. The placement of the adjective before or after the word usually affects the meaning, e.g. "nesh-kur sehlat" can be translated *a black sehlat* or *the black sehlat*, whereas "sehlat nesh-kur" can be translated as *the sehlat is black*.

3. When a noun has a Combining Adjective prefixed, it may have additional Non-Combining Adjectives modifying it. The most important descriptor precedes the affixed noun, while the other adjectives follow it. This has to do with shades of meaning, for example:

"Suk'sehlat nesh-kur" accurately means *the big sehlat which happens to be black*, but

"Nesh-sehlat suk" accurately means *the black sehlat which happens to be big*, and therefore

"Masupik nesh-sehlat suk" means *the wet black sehlat is big*, and

"Suk'nesh-sehlat masupik" means *the big black sehlat is wet*

4. When two or more Non-Combining Adjectives modify a noun, the most important descriptor precedes the noun, while the other adjectives follow it. This has to do with shades of meaning, for example:

"Masupik svep wan-kur" accurately means *the wet door which happens to be white* but would be translated into Federation Standard English as *the white wet door*, and

"Wan-kur svep masupik" accurately means *the white door which happens to be wet* but would be translated into Federation Standard English as *the wet white door*

## Exercise 1

## Tusok 1

Translate the following into Federation Standard English:

1. Nesh-kur sehlata. 2. Wan-kur teresh-kah. 3. Suk'Sonok. 4. Pi'T'Luki. 5. Masupik isachya. 6. Samek yon. 7. Toranik le-matya. 8. Wan-kur sehlata masupik. 9. Nesh-kur teresh-kah toranik. 10. Samek isachya masupik. 11. Masupik svep nesh-kur. 12. Nesh-kur sehlata na'wan-kur svep. 13. Masupik teresh-kah fi'nesh-kur solai. 14. Sonok heh T'Luki masupik heh samek. 15. Masupik sehlata na'yon heh toranik teresh-kah fi'solai. 16. Sonok heh T'Luki toranik fi'ar'kadan nash-gad fi'masupik solai.

## Exercise 2

## Tusok 2

Translate the following into Golic Vulcan:

1. The black le-matya. 2. The white sehlata. 3. Wet hair. 4. Big Sonok. 5. Little T'Luki. 6. The black door. 7. The busy sehlata. 8. The wet black le-matya. 9. The busy white teresh-kah. 10. The cold hair is wet. 11. The wet door is black. 12. The white sehlata is at the black door. 13. The wet le-matya is in the white field. 14. T'Luki and Sonok are wet and cold. 15. The wet sehlata is at the fire and the cold le-matya is in the field. 16. T'Luki and Sonok are busy at work today in the wet field. 17. The white sehlata and the black teresh-kah are at the door.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 9 -- Weak Verbs****Golic Vulcan - Lesson 9  
Gol-Vuhlkansu - Tupa 9****WEAK VERBS  
Kobat-Tor-Zhitlar**

New Vocabulary  
Uzh-Zhit-Feim

Tor *to do, to make*  
 Fulag-tor *to lead*  
 Gla-tor *to see*  
 Ha-tor *to live*  
 Kal-tor *to allow, to let*  
 Kras-tor *to paint*  
 Kum-tor *to catch*  
 Mahr-tor *to buy*  
 Min-tor *to glow*  
 Nam-tor *to be, to exist*  
 Og-tor *to sew*  
 Pil-tor *to prepare food*  
 Puk-tor *to fight*  
 She-tor *to ascend, to go up*  
 Tam-tor *to dance*  
 Tev-tor *to descend*  
 Yahv-tor *to borrow*  
 Zahal-tor *to follow*  
 Zhu-tor *to hear*

Fna' *through*  
 S' *from, out of*

Kin-kur *yellow*  
 Os *old*  
 Pla-kur *blue*  
 Uzh *new*  
 Wehk *many*  
 Yar-kur *green*  
 Yon-kur *red*  
 Zam *few*

Dunap *book*  
 Fau-yut *road, street*  
 Kaiden *stairs*  
 Kelek *house*  
 Kov *rock, stone*  
 Krani *window*  
 Sai-vel *clothes*  
 Wak-vel *clock*  
 Yem-tukh *food*

Yut *path, trail, way*

## Notes

### Pitohlar

1. Weak verbs are very common in Traditional and Modern Golic Vulcan, and are very simple to use, having the same form for all persons in each tense. In this lesson we will be discussing only the present tense of weak verbs. Later lessons will cover past and future forms of verbs. Below is an example of a present tense weak verb:

Gla-tor = to see

Gla-tor nash-veh gla-tor (lit. sees this one) = I see

Gla-tor du = you (singular) see

Gla-tor ish-veh (lit. sees that one) = he/she/it sees

Gla-tor etek = we see

Gla-tor dular = you (plural) see

Gla-tor au = they see

2. Separate words do exist for "he" (*ish-sa*) and "she" (*ish-ko*), but those words are normally only used in Traditional Golic, in specific ancient rituals and formal literature, and in school. In Modern Golic usage, *ish-veh* is normally used for all genders of the third person singular. Of course, it is never incorrect for the student of Golic Vulcan to use the separate forms when first learning the language but we do not stress it here.

3. Plurals are formed by directly suffixing *lar* to the end of the noun modified. *Lar* is not used following a numbered noun, eg. *Gla-tor nash-veh kau kov*, meaning "I see five stones." Notice that *kov* is not suffixed.

## Exercise 1

### Tusok 1

Translate the following into Federation Standard English:

1. Mahr-tor Sonok uzh wak-vel. 2. Yahv-tor T'Luki dunap. 3. Og-tor Sonok os sai-vel. 4. Pil-tor T'Luki yem-tukh. 5. She-tor Sonok kaiden hi tev-tor T'Luki kaiden. 6. Fulag-tor suk'sehlat heh zahal-tor pi'sehlat. 7. Kras-tor ish-veh yar-kur svep. 8. Tam-tor nash-veh svi'uzh kelek. 9. Puk-tor yon-kur Sehlat heh pla-kur le-matya. 10. Ha-tor Sonok heh T'Luki svi'pi'kelek svi'suk'solai. 11. Min-tor yon fna'krani svi'suk'kelek fi'fau-yut. 12. Yahv-tor Sonok kin-kur dunaplar s'T'Luki. 13. Nam-tor wehk pla-kur kovlar svi'solai hi zam yon-kur kovlar. 14. Kum-tor yon-kur le-matya os teresh-kah fi'yut. 15. Zahal-tor pi'Sonok os nesh-sehlat fna'masupik solai na'fau-yut. 16. Zhu-tor T'Luki sehlatlar fna'krani fi'yut na'svep.

## Exercise 2

### Tusok 2

Translate the following into Golic Vulcan:

1. T'Luki buys a new clock. 2. Sonok is borrowing the book. 3. T'Luki is sewing the clothes. 4. Sonok is preparing the food. 5. Sonok is descending the stairs but T'Luki is ascending the stairs. 6. The little sehlat is leading and the big sehlat is following. 7. You are painting the red door. 8. We are dancing in the new house. 9. The green le-matya and the yellow sehlat are fighting. 10. Sonok and T'Luki live in the big house in the small field. 11. The fire glows through the window of the little house on the road. 12. T'Luki borrows the blue books from Sonok. 13. There are many red stones in the field but few green stones. 14. The red le-matya catches the old teresh-kah in the field. 15. Sonok hears the le-matyas through the window on the path to the

door. 16. Little T'Luki follows the old white sehlat through the wet field to the road.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 10 -- Irregular Strong Verbs****Golic Vulcan - Lesson 10  
Gol-Vuhkansu - Tupa 10****IRREGULAR STRONG VERBS  
Ripakhaik Kari-Tor-Zhitlar**

New Vocabulary  
Uzh-Zhit-Feim

Aitlu *to desire*  
Estuhl *to touch*  
Foshuhl *to shed*  
Ip-sut *to hide*  
Klacha *to lock*  
Lasha *to arrive*  
Pstha *to search*  
Salur *to blow*  
Shei *to scream*  
Thanai *to adopt*  
Tu'ash *to open*  
Vlur *to howl*  
Yokul *to eat*

Gahv-kur *purple*  
Sahris, Sahr- *fast*  
Vohris, Vohr- *slow*

Aluk *fish*  
Kan *child*  
Kanlar *children*  
Ko-kan *girl*  
Laptra *forest*  
Muzh *pond, pool*  
Rasath *weight*  
Ravot *insect, bug*  
Sa-kan *boy*  
Salan *wind*  
Sash-savas *a citrus-like fruit*  
Yar *grass*

Notes  
Pitohlar

1. Irregular Strong Verbs (ISV's) were once very common in Golic Vulcan, but thousands were dropped out of everyday use during the Golic Vulcan language reforms started by Surak. Because of Surak's death, though, the language reforms were not completed and many of these kinds of verbs continue to be used. ISV's are usually the oldest verbs found in Golic Vulcan and/or are words adopted from non-Golic Vulcan languages. Like Weak Verbs, they are very simple to use, having the same form for all persons in each tense. Unlike



Weak Verbs, the ISV's have no pattern in construction -- they may end in a vowel or a consonant. In this lesson we will be discussing only the present tense of ISV's. Later lessons will cover past and future forms of verbs. Below are two examples of present tense ISV's:

Estuhl = to touch

Estuhl nash-veh = I touch

Estuhl du = you (singular) touch

Estuhl ish-veh = he/she/it touches

Estuhl etek = we touch

Estuhl dular = you (plural) touch

Estuhl au = they touch

Pstha = to search

Pstha nash-veh = I search

Pstha tu = you (singular) search

Pstha ish-veh = he/she/it searches

Pstha etek = we search

Pstha tular = you (plural) search

Pstha au = they search

2. In addition to the previously shown meanings of "at", "to" or "towards", the Golic Vulcan prepositional prefix *na'* can be translated as Federation Standard English "for".

3. In Golic Vulcan, most adjectives can be used as adverbs without a change in form. When used as an adverb, the word always follows the verb. This can possibly cause confusion to students, as demonstrated below:

*Salur sahris salan* -- which the student might assume could mean "the wind is blowing quickly" or "the quick wind is blowing". In this case, though, it can only mean the first choice. Since a "quick wind" is a single thing, "the quick wind is blowing" would be translated as *salur sahr-salan*, using the affixing form of "fast" or "quick".

#### Exercise 1

##### Tusok 1

Translate the following into Federation Standard English:

1. Salur salan. 2. Shei le-matya. 3. Vlur sehlat. 4. Yokul ravot yar. 5. Estuhl sa-kan aluk. 6. Klacha ko-kan svep. 7. Aitlu Sonok yokul sash-savas. 8. Aitlu T'Luki foshuhl rasath. 9. Thanai Sonok heh T'Luki sa-kan heh ko-kan. 10. Pstha Sonok laptra na'sehlat. 11. Pstha T'Luki muzh na'aluklar. 12. Tu'ash sa-kan gahv-kur svep. 13. Ip-sut nesh-kur teresh-kah svi'laptra. 14. Lasha kanlar heh sehlat na'yon-kur svep.

#### Exercise 2

##### Tusok 2

Translate the following into Golic Vulcan:

1. The wind blows. 2. The sehlat howls. 3. The le-matya screams. 4. The girl touches the fish. 5. The boy locks the door. 6. The insect eats the grass. 7. Sonok wants to shed weight. 8. T'Luki wants to eat the sash-savas. 9. T'Luki searches the forest for the sehlat. 10. Sonok searches the pond for fish. 11. Sonok and T'Luki are adopting children. 12. The girl opens the purple door. 13. The white teresh-kah hides in the forest. 14. The children and the sehlat arrive at the green door.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 11 -- Regular Strong Verbs****Golic Vulcan - Lesson 11  
Gol-Vuhkansu - Tupa 11****REGULAR STRONG VERBS  
Pakhaik Kari-Tor-Zhitlar**

New Vocabulary  
Uzh-Zhit-Feim

Betau *to approach*  
Danau *to explain*  
Fnashtau *to sweep*  
Kitau *to write*  
Klashau *to guard*  
Leipau *to bake*  
Nehau *to rot*  
The'polau *to sauté*  
Tishau *to like*  
Vashau *to destroy*  
Vravshau *to fail*

Has-bosh *ill, sick*  
K'avon *hungry*  
Mol-kur *magenta*  
Muhl *healthy, well*  
Nev-kur *maroon (color)*  
Rik'avon *full (no longer hungry)*  
Zhai-kur *gray*  
Zhar-kur *orange (color)*

Kap *bread*  
Lan-tol *floor*  
Lof *purpose*  
Ne-yartra *meadow*  
Nisan *examination, test*  
Opilsu *chef*  
Sazh *vegetable*  
Svai *flower*  
Urozh *crops*

Notes  
Pitohlar

Regular Strong Verbs (RSV's) are very common in Traditional and Modern Golic Vulcan. Like other Golic verbs, they are very simple to use, having the same form for all persons in present tense. Unlike Weak Verbs and Irregular Strong Verbs, the RSV's have a different ending in simple past tense. In this lesson we will be discussing only the present tense of RSV's. Later lessons will cover past and future forms of verbs. Below is an example of a present tense RSV:

Kitau = to write

Kitau nash-veh = I write

Kitau du = you (singular) write

Kitau ish-veh = he/she/it writes

Kitau etek = we write

Kitau dular = you (plural) write

Kitau au = they write

#### Exercise 1

##### Tusok 1

Translate the following into Federation Standard English:

1. Leipau Sonok kap. 2. Fnashtau T'Luki lan-tol. 3. Klashau sehlat pla-kur svep. 4. Danau Sonok lof na'T'Luki. 5. Nehau uroz h svi'solai. 6. Vashau salan svailar svi'ne-yartra. 7. Tishau sa-kan ko-kan. 8. The'polau Opilsu nev-kur sazhlar. 9. Sonok muhl hi T'Luki has-bosh. 10. Vravshau sa-kan nisan. 11. Betau nesh-kur sehlat mol-kur svai svi'ne-yartra. 12. Tishau T'Luki yon-kur heh zhar-kur svailar hi ri nev-kur. 13. Sa-kan k'avon hi ko-kan rik'avon.

#### Exercise 2

##### Tusok 2

Translate the following into Golic Vulcan:

1. T'Luki bakes the bread. 2. Sonok sweeps the floor. 3. The sehlat guards the green door. 4. T'Luki explains the purpose to Sonok. 5. The crops rot in the field. 6. The girl likes the boy. 7. The wind destroys the flowers in the meadow. 8. The chef is sautéing the orange vegetables. 9. Sonok is sick but T'luki is well. 10. The girl fails the test. 11. The white sehlat approaches the maroon flower in the meadow. 12. T'Luki likes blue and orange flowers but not red. 13. The girl is hungry but the boy is full.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 12 -- Adjectival Forms****Golic Vulcan - Lesson 12  
Gol-Vuhlkansu - Tupa 12****ADJECTIVAL FORMS  
Rub-Zhit-Shidlar**

This lesson builds on the information in Lesson 8.  
The student might find it useful to review that lesson now.

New Vocabulary  
Uzh-Zhit-Feim

abrashau *to pick up*  
set-tor *to drop*  
tev-tor *to fall*  
vazgau *to steal*

s' *from*

akansu *an alien*  
Andorsu *an Andorian*  
Beidzhorsu *a Bajoran*  
Beitazedsu *a Betazed*  
Deltasu *a Deltan*  
ek'zer *gem, jewel*  
Ferengi *a Ferengi*  
Gornarsu *a Gorn*  
Horta *a Horta*  
Kardassu *a Cardassian*  
kitau-skaf *desk*  
kosu *woman*  
lan-tol *floor*  
Melkotsu *a Melkotian*  
natuhn *box*  
Raidzhelsu *a Rigellian*  
Rihansu *a Romulan*  
salasu *a native*  
sasu *man*  
Tellarsu *a Tellarite*  
Terrasu *an Earthling (Terran)*  
Tlingansu *a Klingon*  
Vuhlkansu *a Vulcan*

See also the chart below

## Notes

### Pitohlar

1. In Traditional and Modern Golic Vulcan, nearly every true adjective has two forms -- *Combining Form* and *Non-Combining Form*. (If you have not already done so, please review the material in Lesson 8 for a basic introduction to adjectives.)
2. The Combining Form of most adjectives is the base root word, although there are a few exceptions to be seen in our large vocabulary lists. This "root" is then prefixed to the noun to modify it.
3. The Non-Combining Form of most adjectives is the base root word, suffixed with the adjectival ending "~ik". These are considered "Regular Adjectives". Of course, many adjectives borrowed from older or other languages do not follow this construction. These are considered "Irregular Adjectives". The student will learn these through study and practice.
4. Adjectives based on verbs ending in "ai" or "au" are nearly always formed by directly suffixing "~k"; for example, "volaik" or "patauk". These are also considered Regular Adjectives.
5. Some Irregular Adjectives have the same spelling for both Combining and Non-Combining Form. The best known of these is "tsuri" (common, regular, usual) and its negative counterpart "ritsuri" (uncommon, irregular, unusual). Of course, the Combining Form is still separated by a punctuation mark.
6. It is the tendency in Golic Vulcan to prefer using the Combining Form whenever possible. Therefore, if the noun is composed of no more than two word segments -- for example, "dal" or "dal-nath" -- then the Combining Form of the adjective is often prefixed to the noun. A Combining Form is *never* prefixed to a trinary word such as "bai-lon-tak", due to the Golic Vulcan word formation rule that prevents such formation. Always use the Non-Combining Form with a trinary word.
7. Golic Vulcan has something called a "State Modifier" which is not considered an adjective by Vulcan grammarians but still modifies a noun or establishes a state or status (hence the name). These are usually a suffixed word, such as "has-bosh" (sick, literally "sickness-full") or "zhu-fam" (deaf, literally "hearing-less"). These words may be affixed with other modifiers but do not affix to the noun.
8. Golic Vulcan also has one other construction that acts as an adjective; this is colloquially called a "With Modifier" but actually has no official grammatical term. Two examples are "k'avon" (hungry, literally "with hunger") and "k'mag" (thirsty, literally "with thirst"). These were once very common in older forms of the Golic Vulcan languages but are not as common in Traditional or Modern Golic. Since these words are already prefixed with a preposition, no other prepositions can be added. To say "with the hungry le-matya", for example, you'd say "k'le-matya k'avon".

In the tables below are some examples of various kinds of adjectives in both forms:

<b>F.S. English</b>	<b>G.V. Combining Form</b>	<b>G.V. Non-Combining Form</b>
acidic	sash-	sashik
aggressive	kres-	kresik
alkaline	sovash-	sovashik
angry	reshen-	reshnek
automatic	shati-	shatik
big, large	suk'	suk
black	nesh-	nesh-kur

blind	---	glan-fam
bricht	uuel-	uuelik

clear	pa'shi-	pa'shik
cold	sam-	samek
common, regular	tsuri-	tsuri
dead	tevi-	tevik
deaf	---	zhu-fam
dishonest	ritrau-	ritrau
dishonorable	ridor-	ridorli
easy, simple	veli-	velik
fast	sahr-	sahris
fat	thel-	thelik
foreign	---	k'shatri
frequent	vakav-	vakav
general	pa'es-	paik
good	rom-	rom
harmful	---	klau-bosh
healthy	---	muhl-bosh
heavy	ras-	ras
honest	trau-	trau
honorable	dor-	dorli
hot	fal-	fal
hungry	---	k'avon
ill, sick	---	has-bosh
jealous	kis-	kis-ka
little, small	pi'	pi
long	wu-	wu
mature	vin-	vinik
medical	has-	hasuk
microscopic	numo-	numo
modern	iyi-	iyik
mutant	tset-	tsetlik
native	sala-	salatik
natural	malat-	malatik
next	thurai-	thurai
obese	thel'an-	thel'anik
old-fashioned	---	vesh-nartauk
original	tvesh-	tveshik

peaceful	---	sochya-bosh
possible	---	tor-vehat
pretty	takov-	takov
quiet	hizh-	hizhuk
radioactive	---	galu-sayuk
right, correct	yeht-	yeht
same	ka-	ka
short	pen-	pen
silent	---	ralash-fam
slow	vohr-	vohris
static	vit-	vitik
tall	---	ha-vol
tame	fnau-	fnau
telepathic	---	irak-nahik
thick	bali-	bali
thirsty	---	k'mag
tired	zungri-	zungor
traditional	ba-	baik
ugly	watosh-	watosh
united	---	kaunshuk
useless	---	is-fam
violent	khrash-	khrashik
white	wan-	wan-kur

Exercise 1  
Tusok 1

Translate the following into Federation Standard English:

1. Tlingansu khrashik hi Deltasu sochya-bosh. 2. Zhai-sehlatlar fnau hi le-matyalar kresik. 3. Ferengi ritrau hi Vuhlkansu trau. 4. Raidzhelsu k'avon heh k'mag. 5. Nesh-sehlat heh pla-kushel pi eh hizhuk. 6. Shitau Sonok ras-dunap fi'suk'pasu. 7. Dvin-tor T'Luki yar-sazhlar heh zhar-savaslar. 8. Abrashau reshnek Kardassu pi'natuhn s'kitau-skaf. 9. Tev-tor wu-lipau fi'lan-tol. 10. Set-tor Rihansu suk'snauk fi'yar-pasu. 11. Vazgau ridorli Tellarsu ek'zerler t'etek s'pi'kitau-skaf. 12. Ha-vol Beitazedsu glan-fam heh pen Vuhlkansu zhu-fam.

Exercise 2  
Tusok 2

Translate the following into Golic Vulcan:

1. The Rigellian is violent but the Horta is peaceful. 2. The black sehlat's are tame but the le-matyas are



aggressive. 3. The Ferengi is dishonest but the Earthling is honest. 4. The Klingon is hungry and thirsty. 5. The grey sehlat and the blackbird are small and quiet. 6. T'Luki puts the heavy book on the small table. 7. The angry Andorian picks up the large box from the desk. 8. Sonok serves orange vegetables and blue fruits. 9. The long spoon falls on the floor. 10. The Romulan drops the large fork on the blue table. 11. The dishonorable Gorn steals our jewels from the big desk. 12. The tall Vulcan is blind and the short Betazed is deaf.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 13 -- Possession****Golic Vulcan - Lesson 13  
Gol-Vuhlkansu - Tupa 13****POSSESSION  
Mat**

New Vocabulary  
Uzh-Zhit-Feim

Ma *to own, to possess*  
Nem-tor *to take*  
Ritishau *to dislike*  
Stau *to kill*  
Yahv-tor *to borrow*  
Zakar-tor *to damage*

Ka vah *(the) same as*

Bar-kas *spice*  
Dukal *ball*  
Dva *belief*  
Kluf *boot*  
Sahriv *storm*  
Shur t'plomik *plomeek soup*  
Yarmok *salad*

Notes  
Pitohlar

1. Denoting possession in Traditional and Modern Golic Vulcan is very easy; it closely follows the pattern of many of the Romance languages on Earth, such as French, Italian or Spanish. Instead of using the Federation Standard English form of an apostrophe and an "s", Golic Vulcan uses the prepositional prefix "t'" (of). Also, remember that the item *always* precedes the owner in possession. Therefore, "Sonok's ball" would be translated "dukal t'Sonok" (literally "the ball of Sonok").

2. Personal possession is based on the personal pronouns, using the same rule as above. Therefore, "The le-matya is eating my ball and your book" would be translated "Yokul le-matya dukal t'nash-veh heh dunap t'du" (literally "Eats the le-matya the ball of me and the book of you"). Refer to the table below for reference.

<b>F.S. English</b>	<b>Golic Vulcan</b>
my/mine	t'nash-veh
your/yours (singular)	t'du
his	t'sa-veh <i>or</i> t'ish-veh
her/hers	t'ko-veh <i>or</i> t'ish-veh
its	t'ish-veh

our/ours	t'etek
vour/vours (plural)	t'dular
their/theirs	t'au

3. Above you will notice there are two forms for "his" and "her(s)". This is related to the two forms for the corresponding personal pronouns. In Golic Vulcan "everyday" usage, "ish-veh" and its corresponding "t'ish-veh" are usually used for all forms of the the third person singular. If it is necessary for clarity or you wish to use more formal usage, then use the gender specific terms. In these lessons we will use "t'sa-veh" and "t'ko-veh" to benefit the new student.

#### Exercise 1

##### Tusok 1

Translate the following into Federation Standard English:

1. You are eating my salad. 2. The girl takes his ball. 3. The boy takes her book. 4. Sonok likes bread with T'Luki's plomeek soup. 5. The sehlat is eating her flowers. 6. T'Luki dislikes the spice in Sonok's plomeek soup. 7. The storm is damaging the crops in our field but not his. 8. The le-matya is killing our sehlat. 9. T'Luki is borrowing Sonok's black boots. 10. My beliefs are not the same as yours.

#### Exercise 2

##### Tusok 2

Translate the following into Golic Vulcan:

1. Yokul nash-veh yarmok t'du. 2. Nem-tor sa-kan dukal t'ko-veh. 3. Nem-tor ko-kan dunap t'sa-veh. 4. Tishau T'Luki kap k'shur t'plomik t'Sonok. 5. Yokul le-matya svailar t'ko-veh. 6. Ritishau Sonok bar-kas svi'shur t'plomik t'T'Luki. 7. Zakar-tor sahriv uroz h svi'solai t'sa-veh hi ri t'etek. 8. Stau le-matya sehlat t'dular. 9. Yahv-tor Sonok khav-kur klufnar t'T'Luki. 10. Nam-tor dvalar t'du ri ka vah t'au.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 14 -- Use of Numbers in Sentences****Golic Vulcan - Lesson 14  
Gol-Vuhlkansu - Tupa 14****THE USE OF NUMBERS IN SENTENCES****Is t'Su'uslar svi'Zhit-Ballar**New Vocabulary  
Uzh-Zhit-FeimDvin-tor *to serve*  
Fas-tor *to cook*  
Nesh-tor *to cut*  
Shitau *to place, to put*Natya *different*Floku *spoon*  
Ha'fek *candle(stick)*  
Ko-telsu *wife*  
Krus *piece*  
Ku-san *chair*  
Lipau *knife*  
Math *plate*  
Monek *cup*  
Mu'yor *night*  
Nef *shelf*  
Pasu *table*  
Ru'lut-sai *napkin*  
Sa-telsu *husband*  
Snauk *fork*  
Yel *star*  
Yerak *bowl*

Also refer the the number tables in Lesson 5.

Notes  
Pitohlar

1. As noted in an earlier lesson, simple plurals are created by directly suffixing "lar" to nouns. When using a number with a noun to signify quantity, though, "lar" is *never* used, since it is considered redundant. For example, "dunaplar" (books) but "reh dunap" (three books). Remember to use the Enumerating Form of numbers when signifying how much of an item there is.

2. Ordinal numbers precede the noun modified if there are no other adjectives. If there are other adjectives attached to the noun, then the order of the words determines shades of meaning. For example, "dah'rak sehlat nesh-kur" (the second sehlat is black) vs. "nesh-kur sehlat dah'rak" (the black sehlat is second).

## Exercise 1

## Tusok 1

Translate the following into Federation Standard English:

1. Here are five plates. 2. She has three forks. 3. You own seven candles. 4. Sonok puts four knives and one napkin on the table. 5. T'Luki puts twelve cups and nine spoons on the shelf. 6. We see seven teresh-kahs in the field. 7. Three le-matyas are killing our sehlat. 8. The boy cuts four pieces of bread. 9. The girl serves eight bowls of plomeek soup. 10. The chef cooks six different vegetables. 11. I see the first star of the night. 12. T'Luki is my second wife. 13. Sonok is my third husband. 14. The fifth sehlat is brown but the sixth is black.

## Exercise 2

## Tusok 2

Translate the following into Golic Vulcan:

1. La leh math. 2. Ma ko-veh reh snauk. 3. Ma tu kau ha'fek. 4. Shitau T'Luki nau lipau eh dah ru'lut-sai fi'nef. 5. Shitau Sonok leh-wuh monek heh sheh floku fi'pasu. 6. Gla-tor au leh-kau teresh-kah svi'solai. 7. Stau oh le-matya sehlatlar t'etek. 8. Nesh-tor ko-kan reh krus t'kap. 9. Dvin-tor sa-kan keh yerak t'shur t'plomik. 10. Fas-tor opilsu steh natya sazh. 11. Gla-tor etek wuh'rak yel t'mu'yor. 12. Nam-tor T'Luki reh'rak ko-telsu t'nash-veh. 13. Nam-tor Sonok dah'rak sa-telsu t'nash-veh. 14. Steh'rak sehlat nesh-kur hi oh'rak khav-kur.

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 15 -- Interrogatives****Golic Vulcan - Lesson 15  
Gol-Vuhlkansu - Tupa 15****INTERROGATIVES  
Deshkaun-Zhitlar**

New Vocabulary  
Uzh-Zhit-Feim

If *which?*  
Lu *when?*  
Po *why?*  
Ra *what?*  
t'Vi *whose?*  
Uf *how?*  
Uf mau *how much?*  
Uf wehk *how many?*  
Vi *who?*  
Wilat *where?*

Tab-ma *late*  
Va'ashiv *again*  
Weh-rasahkos *worse*  
Weh-rom *better*

Ash'ai *sock*  
Ash'el *shoe*  
Kahm *meat*  
Ko-mekh *mother*  
Malanu *pants*  
Patam-sai *cap, hat*  
Pelal *robe*  
Sa-mekh *father*  
San-zhel *belt*  
Sav'el *shirt*  
To-pal *coat*  
To-sai *cloak*  
Wak *time*

Notes  
Pitohlar

1. A large percentage of Earth languages use some sort of "question mark" or other punctuation device to demonstrate that the sentence is a question. None of the Golic Vulcan languages uses a question mark, so it is not quickly obvious to the student of an Earth language that a sentence is a question. Most questions are formed simply by the use of an interrogative word at the end of the sentence. For example, "Kluflar t'nash-veh wilat" means "Where are my boots?" (literally "Boots of mine where?"). The question word is often spoken with a rising tone.

2. So-called "yes-no" questions are handled differently. The word normally used for "yes" is placed at the end of the question and pronounced with a rising tone. For example, "Olau tu has-bosh ha" means "Are you feeling ill?" (literally "Feel you ill yes?"). Speakers of Federation Standard English might find it easier to remember this structure by recalling the similar sounding "huh?" often used in informal speech.

3. If the tone of the question is quiet or normal, the sentence ends with an ek'pehkaya (full-stop) which is like a period. If the tone of the question is excited or loud, the sentence ends with a dah-pehkaya (double-stop) which is like an exclamation point. These rules apply to all questions. Speakers of Federation Standard English may initially find it strange to see a period or exclamation mark at the end of a question, but familiarity will come quickly through practice.

4. Sentence constructions for some questions will seem awkward to the student at first, due to the differences in grammar and word usage between the languages. For example, to ask "How hot is it?" you actually need to ask "Is heat how much?" ("Nam-tor falek uf mau.") or "How are you?" would be "Feel you how?" ("Olau tu uf."), etc.

#### Exercise 1 Tusok 1

Translate the following into Federation Standard English:

1. To-pal t'du wilat. 2. Sehlatlal t'nash-veh wilat. 3. Ma malanu t'sa-veh vi. 4. Tishau ko-veh pelal if. 5. Tishau weh-rom ash'ailar if. 6. Shitau T'Luki moneklar wilat. 7. Gla-tor du dunap t'Sonok ha. 8. Ma sa-kan heh ko-kan san-zhellar ha. 9. Yokul kosu yarmok ha. 10. Yokul sasu kahm ha. 11. Nam-tor wak ra. 12. Lasha sa-mekh t'du lu. 13. Nam-tor du tab-ma va'ashiv po.

#### Exercise 2 Tusok 2

Translate the following into Golic Vulcan:

1. Where is my coat? 2. Where are your sehlat? 3. Who has my pants? 4. Which robe do you like? 5. Which socks do you like better? 6. Where does Sonok put the cups? 7. Do you see T'Luki's book? 8. Do the boy and girl have coats? 9. Does the man eat salad? 10. Does the woman eat meat? 11. What time is it? 12. When does your mother arrive? 13. Why are they late again?

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 16 -- Verbs - Past Tense Forms****Golic Vulcan - Lesson 16  
Gol-Vuhlkansu - Tupa 16****VERBS: PAST TENSE FORMS  
Tor-Zhitlar - Vesh-Wis-Shidlar**

This lesson covers Simple Past Tense  
and Perfect Past Tense verb forms.

New Vocabulary  
Uzh-Zhit-Feim

Hal-tor *to go*  
Halovau *to travel, to journey*  
Hash-tor *to fly*  
Klepovau *to shop*  
Nashiv-tor *to attack*  
Stron-tor *to escape*  
Tal-tor *to find*  
Yaretau *to visit*

Vi' *into*

K'ashiv *often*  
Wuh'rak *first*

Aru-yem *dinner*  
Asal-yem *breakfast*  
Eshikh *desert*  
Ha'gel *light*  
Kahr *town*  
Khi-gad-yem *lunch*  
Khru *evening*  
Klachek *lock*  
Kraisek *cage*  
Shan-hali *shuttle*  
Stukh (*outer*) *space*  
Tal-muv *key*  
Tomasu *relative*

Notes  
Pitohlar

1. To form the Simple Past Tense, Weak Verbs and Irregular Strong Verbs are simply preceded by the word "vesht". For example, "vesht gla-tor au", meaning "they saw" (literally "past see they"). Regular Strong Verbs, for example "tishau", are *never* preceded by "vesht" to form the Simple Past Tense. The final letter is changed from "u" to "l", thus "tishau tu" ("you like") and "tishal du" ("you liked").



2. To form the Perfect Past Tense, the participial prefix "ki" is directly attached to the verb. For Weak Verbs and Irregular Strong Verbs the "vesht" is dropped before attaching the prefix; for Regular Strong Verbs the prefix is attached to the Simple Past Tense form of the verb. For example, "ki'gla-tor du" ("you have seen") and "ki'tishal etek" ("we have liked").

3. To ask a question such as "Did you see the book?" you would use Simple Past Tense as the base. It would literally be rendered as "Saw you the book?" ("Vesht gla-tor du dunap ha").

4. To ask a question such as "Have you seen the ball?" you would use Perfect Past Tense as the base. It would literally be rendered as "Have seen you the ball?" ("Ki'gla-tor du dukal ha").

#### Exercise 1

##### Tusok 1

Translate the following into Federation Standard English:

1. Vesht gla-tor etek ha'gel. 2. Vesht nem-tor T'Luki yon-kur dunap. 3. Vesht yokul Sonok yarmok. 4. Vesht stron-tor kushel s'kraisek. 5. Vesht nashiv-tor le-matyalar kuht t'sehlat t'au. 6. Vesht tal-tor ko-kan tal-muv heh klachek fi'pasu. 7. Vesht fas-tor sa-kan khi-gad-yem heh leipau kap. 8. Ki'gla-tor dular yellar. 9. Ki'hal-tor Sonok na'kahr. 10. Vesht hash-tor T'Luki shan-hali vi'stukh. 11. Ki'haloval au k'ashiv na'Shi'Kahr klepovau. 12. Ki'yaretal tomasular t'du eshikh. 13. Ki'yokul du aru-yem ha. 14. Vesht gla-tor au wuh'rak yel t'khru ha.

#### Exercise 2

##### Tusok 2

Translate the following into Golic Vulcan:

1. I saw the light. 2. Sonok took the brown book. 3. T'Luki ate the salad. 4. The bird escaped from the cage. 5. The le-matya attacked our herd of sehlat. 6. The boy found the key and lock on the table. 7. The girl cooked dinner and baked bread. 8. We have seen the stars. 9. T'Luki has gone to town. 10. Sonok flew the shuttle into space. 11. We have often traveled to Shi'Kahr to shop. 12. Our relatives have visited the desert. 13. Have they eaten breakfast? 14. Did you see the first star of the evening?

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 17 -- Verbs - Simple Future Tense****Golic Vulcan - Lesson 17  
Gol-Vuhlkansu - Tupa 17****VERBS: SIMPLE FUTURE TENSE  
Tor-Zhitlar - Nenek Fa-Wak-Wis**

This lesson covers constructions using "Will"

New Vocabulary  
Uzh-Zhit-Feim

*Refer to the previous lesson and established vocabulary.*

Notes  
Pitohlar

1. In Traditional Golic Vulcan, Simple Future Tense is formed by preceding the verb to be modified with the helper word "fa-wak" ("future"). For example, "fa-wak pehkau", meaning "will stop" (literally "future to stop"). Fa-wak is *never* affixed to a word.

2. In Modern Golic Vulcan, Simple Future Tense is formed by preceding the verb to be modified with the helper word "dung". "Dung" is not affixed to Weak Verbs, for example, "dung kal-tor"; but it is affixed to both kinds of Strong Verbs, for example, "dung-palikau". This is an ancient grammatical rule in normal sentence order.

2. For shades of meaning or emphasis, the sentence order of Future Tense constructions can change. For example: "Dung-trasha etek", meaning "They will leave" (normal sentence order); but if you want to emphasize that "they" and not someone else is leaving, then the sentence would be "Dung etek trasha", meaning "*They* will leave".

3. Where students of Golic Vulcan may have confusion in Future Tense usage, though, is when the sentence is a question and a questioning word is not used. Unlike Present Tense and Past Tense, the terminal questioning word "ha" is not used in Future Tense. Since there is no question mark in Vulcan, a Future Tense sentence can look like a statement or a question. For example: "Dung tu sahrasel" can mean "*You* will trust" or "Will *you* trust?" In written form, the student will have to go by context; in pronunciation, though, the tone of the last syllable in the final word is raised in the question only. Of course, questions with questioning words will not be confusing. For example: "Dung hal-tor du wilat" ("Where will you go?")

Exercise 1  
Tusok 1

Translate the following into Federation Standard English:

1. Dung gla-tor etek ha'gel. 2. Dung nem-tor T'Luki yon-kur dunap. 3. Dung yokul Sonok yarmok. 4. Dung stron-tor kushel s'kraisek. 5. Dung nashiv-tor le-matyalar kuht t'sehlat t'au. 6. Dung tal-tor ko-kan tal-muv heh klachek fi'pasu. 7. Dung fas-tor sa-kan khi-gad-yem heh leipau kap. 8. Dung hal-tor Sonok na'kahr. 9. Dung hash-tor T'Luki shan-hali vi'stukh. 10. Dung halovau au na'Shi'Kahr klepovau. 11. Dung yaretau

tomasular t'du eshikh. 12. Dungi-yokul du aru-yem. 13. Dungi gla-tor au wuh'rak yel t'khru wilat.

## Exercise 2

### Tusok 2

Translate the following into Golic Vulcan:

1. I will see the light. 2. Sonok will take the brown book. 3. T'Luki will eat the salad. 4. The bird will escape from the cage. 5. The le-matyas will attack our herd of sehlat. 6. The boy will find the key and lock on the table. 7. The girl will cook dinner and bake bread. 8. Will T'Luki go to town? 9. Sonok will fly the shuttle into space. 10. We will travel to Shi'Kahr to shop. 11. Our relatives will visit the desert. 12. Will they eat breakfast? 13. Where will you see the first star of the evening?

The student is encouraged to learn further by making new sentences based on words from the large vocabulary lists.

**Lesson 18 -- Verbs - Advanced Forms****Golic Vulcan - Lesson 18  
Gol-Vuhlkansu - Tupa 18****VERBS: ADVANCED FORMS  
Tor-Zhitlar - Stor-Shidlar**

This lesson covers sentences with  
"able to", "could have" and "would have" verb forms.

## Vocabulary

## Zhit-Feim

(May include repeats from earlier lessons)

Dvel-tor *to choose*

Hash-tor *to fly*

Ip-sut *to hide*

Kum-tor *to catch*

Mahal-tor *to swim*

Mavau *to play*

Tam-tor *to dance*

Uralau *to sing*

Yetur *to drive*

Yokul *to eat*

Ek'gad *all day*

Ek'mu'yor *all night*

Kuv *if*

Ten-mal *early*

Tor-yehat *possible*

Vohris *slow*

Wuh'ashiv *another*

Dzharel "*jarel*", *a pony-like horned animal*

Eshikh *desert*

Ha-kel *home*

Kahr *town*

Kanu *children (TGV)*

Kanlar *children (MGV)*

Mor-gril *a wolverine-like animal*

Ralash-tanaf *music*

Wak *time*

## Notes

## Pitohlar

1. This is an example of a verb using the form equivalent to "able to":  
Kitau = to write

Kup kitau nash-veh = I am able to write  
 Kup kitau du = you (singular) are able to write  
 Kup kitau ish-veh = he/she/it is able to write  
 Kup kitau etek = we are able to write  
 Kup kitau dular = you (plural) are able to write  
 Kup kitau au = they are able to write

2. This is an example of the same verb using the form equivalent to "could have":

Kupi ki'kital nash-veh = I could have written  
 Kupi ki'kital du = you (singular) could have written  
 Kupi ki'kital ish-veh = he/she/it could have written  
 Kupi ki'kital etek = we could have written  
 Kupi ki'kital dular = you (plural) could have written  
 Kupi ki'kital au = they could have written

3. This is an example of the same verb using the form equivalent to "would have":

Vesht dungi ki'kital nash-veh = I would have written  
 Vesht dungi ki'kital du = you (singular) would have written  
 Vesht dungi ki'kital ish-veh = he/she/it would have written  
 Vesht dungi ki'kital etek = we would have written  
 Vesht dungi ki'kital dular = you (plural) would have written  
 Vesht dungi ki'kital au = they would have written

4. When a subjunctive is created with "if" ("kuv") and these verb forms, the verbs following the "if" remain in present tense form, since the sentence is already set to tense by the earlier verb. Also, if the subject is the same, it is not repeated. For example, "Vesht dungi ki'kital du kuv ma wak" literally means "You would have written if have time" but means "You would have written if you had time."

#### Exercise 1

##### Tusok 1

Translate the following into Federation Standard English:

1. Kup uralau du. 2. Kup hash-tor nash-veh. 3. Kup mahal-tor etek ha. 4. Kup mavau Sonok heh T'Luki ralash-tanaf. 5. Kup ip-sut dzharel svi'eshikh. 6. Kupi ki'yetur nash-veh. 7. Kupi ki'sarlah kanlar t'dular na'ha-kel. 8. Kupi ki'dvel-tor au wuh'ashiv dunap ha. 9. Kupi ki'tam-tor Kardassu ek'gad. 10. Vesht dungi ki'kitau ish-veh kuv ma wak. 11. Vesht dungi ki'yokul ten-mal Sonok kuv tor-yehat. 12. Vesht dungi ki'kum-tor mor-gril etek kuv vohris.

#### Exercise 2

##### Tusok 2

Translate the following into Golic Vulcan:

1. I am able to sing. 2. You are able to fly. 3. Are they able to swim? 4. Sonok and T'Luki are able to dance. 5. The sehlat is able to hide in the desert. 6. We could have driven to town. 7. Our children could have come home. 8. Could we have chosen another book? 9. The Ferengi could have danced all night. 10. I would have written if I had time. 11. T'Luki would have eaten early if possible. 12. The le-matya would have caught us if we were slow.

The student is encouraged to learn further by making new sentences based on words from the dictionaries.

**Lesson 19 -- Honorifics****Golic Vulcan - Lesson 19  
Gol-Vuhlkansu - Tupa 19****HONORIFICS  
Dorlanlar**

Example Vocabulary  
Li-Falik Zhit-Feim

Oekon *God, the Supreme Being (ekon = a god)*  
Ofereiksu *the Creator (fereiksu = creator, inventor)*  
Oko-mekh *mother (when addressed, literally "honored mother")*  
Opilsu *chef (pilsu = cook, food preparer)*  
Osa-mekh *father (when addressed, literally "honored father")*  
Osavensu *teacher (literally "honored teacher", as a token of respect)*  
Osu *sir, madam (as in a title, literally "honored person")*  
Oveh *sir, madam (when addressed, literally "honored one")*

Onash-veh *me (when spoken by a superior about themselves, literally "honored this-one")*  
Odu *you (to a superior or honored person, literally "honored you")*  
Oish-veh *he, she (about a superior or honored person, literally "honored that-one")*  
Oetwel *we, us (when spoken by superiors about themselves, literally "honored we/us")*  
Odular *you (to superiors or honored persons, literally "honored you-plural")*  
Oau *they, them (about superiors or honored persons, literally "honored they/them")*

Notes  
Pitohlar

The use of "honorifics" is very common in all the Vulcan languages, including the Golic languages. This is to be expected in a culture that puts great emphasis on honoring elders, philosophers, teachers and superiors of any kind. This can be traced back into the dim past of Vulcan when the planet had classes that were strongly stratified. Indeed, life on Vulcan in some subcultures was once divided into a social system somewhat reminiscent of the caste system of India on Earth. Each social strata would use forms of words more formal or honorific when addressing or referring to those in a more superior position. This discussion will also be continued in the following, complementary lesson on modes of speech.

In Golic Vulcan, there are a number of examples of one word used for normal usage and a variant used when addressing or referring to something or someone "honored" or "greatly admired". Also, people in a higher status may use words that people in a lower status do not. These types of words will be addressed in the next lesson.

In addition, the prefix "o" -- which has no exact FSE translation but "honorable" is considered closest in meaning -- is directly affixed to the word it modifies. Examples: "Osu", literally "honored person", but usually translated as "sir" or "madam", depending on the context; and "osavensu" (honored teacher), which is nearly always used in preference over "savensu" (teacher). Almost any noun can be prefixed this way, but some words could be taken as sarcastic or insulting if made into an "honorific". For example, "Oguhsh-masu", literally "honored sewage".

Children of a family or clan almost always use the honorific form of "father" or "mother", etc., when

addressing their elders. Thus, "osa-mekh" (honored father) instead of "sa-mekh" and "oko-mekh" (honored mother) instead of "ko-mekh".

Also, linked to honor, the prefix "o" can mean an upgrade in status for a word, for example, "pilsu" (cook, food preparer) but "opilsu" (chef), or "hashsu" (pilot) but "ohashsu" (ace, expert pilot).

Despite potential spelling or pronunciation confusion, "o" is always directly affixed to a word whether it begins with a consonant or vowel sound. An "honorific" word is the only time you will possibly see a Golic Vulcan word start with three vowels.

There are no exercises for this lesson.

The student is encouraged to experiment creating honorifics from words in the large vocabulary lists.

**Lesson 20 -- Imperatives****Golic Vulcan - Lesson 20  
Gol-Vuhlkansu - Tupa 20**

This lesson has to do with the formation of imperatives in Golic Vulcan. Imperatives are the forms of words used when commanding someone or something to do a specific action. Examples: "Stay!" "Sit!" "Roll Over!" "Answer!" As with many other parts of Golic Vulcan speech, there is a normal form used with most people, such as equals, friends, children, people in an inferior position in rank or status, a pet, etc.; and an honorific form used with a superior, a parent, a teacher or other honored person.

**Notes  
Pitohlar**

Normal imperatives are formed by suffixing " 'uh " to a combining form of the verb. Honorific imperatives are formed by suffixing " 'voh " to a combining form of the verb.

Weak Verbs, as we have shown earlier, are any verbs that end in " -tor ", such as kal-tor (to allow, to let). The root of kal-tor is "kal". Adding the imperative suffixes, you get "kal'uh" (normal) and "kal'voh" (honorific). Examples of use are: "Kal'uh nash-veh.." and its counterpart "Kal'voh nash-veh.." meaning "Let me!"

Regular Strong Verbs are any verbs that that end in " au ", such as vashau (to destroy). You would assume that to form the imperative, you would drop the " au " and suffix it, but this causes a potential confusion in meaning, since there could be verbs like "vashau" and "vash-tor" that might mean something different, thus the roots would not be able to be used identically. In order to not confuse the meaning of words, regular strong verbs drop only the final " u " before adding the imperative suffixes. "Vashau" becomes "vasha'uh" and "vasha'voh". Examples of use are: "Vasha'uh yel-hali t'nemut.." and "Vasha'voh yel-hali t'nemut.." meaning "Destroy the enemy starship!"

Irregular Strong Verbs are any verbs that do not end in " -tor " or " au ", such as tu'ash (to open). The imperative suffixes are added directly to the end of irregular strong verbs, thus you get "tu'ash'uh" (normal) and "tu'ash'voh" (honorific). Examples of use are: "Tu'ash'uh svep.." and its counterpart "Tu'ash'voh svep.." meaning "Open the door!"

There are no exercises for this lesson.

The student is encouraged to experiment creating imperatives from words in the large vocabulary lists.



Lesson 21 -- Dependent Clauses

And

Lesson 22 -- Complex Sentences

are coming soon – check the Vulcan Language Institute website at [www.vulcanlanguage.com](http://www.vulcanlanguage.com) for updates and more information.

## **Vulcan Culture**

The Vulcans have a very rich and diverse culture deeply rooted in ancient tradition and beliefs. Many important events in the lives of Vulcans have a ceremony or ritual attached to it. Although all Vulcans do not follow every one of the ancient ways, the vast majority of Vulcans find great comfort and logic in the stability afforded by old traditions, many of which actually date back before the time of Surak. Even those Vulcan offshoots, the Romulans, retain a few odds and ends of the traditions of their long-abandoned original homeworld.

## Philosophy and Teachings of Surak

### Ven-dol-tar heh Saven-don-tak t'Surak

The sayings, wisdom and teachings of Surak, and those attributed to him after his death, play an extremely important part in Vulcan culture and society. Although all Vulcans do not follow his teachings in the same manner and some have even rejected his teachings, the vast majority of Vulcans revere Surak above all other Vulcans past or present. It is unlikely this will ever change as long as an advanced culture lives on T'Khasi. Recent information has shown that selected items from Surak's teachings, approved by the government, are even taught in Romulan society!

One of the most important philosophies to come from Surak's teachings was the concept of IDIC (Infinite Diversity in Infinite Combinations) or Va'Vuhnaya s'Va'Terishlar in Traditional Golic Vulcan. Most followers of the teachings of Surak are believers of this concept. As recognition of that fact, these adherents will wear or display the famous IDIC symbol designed by Surak. Many non-Vulcans have adopted this belief and the symbol as well.



### EXAMPLES OF SURAK'S TEACHINGS

#### Li-fallar t'saven-don-tak t'Surak

>Dakh pthak. Nam-tor ri ret na'fan-kitok fa tu dakh pthak<.

*Cast out fear. There is no room for anything else until you cast out fear.*

>Vah mau vah tor-yehat ri stau. Kup-fun-tor ha'kiv na'ish du stau? Dom nam-tor vohris nem-tor ha'kiv<.

*As far as possible, do not kill. Can you return life to what you kill? Then be slow to take life.*

>Ma etek natyan — teretuhr lau etek shetau weh-lo'uk do tum t'on<.

*We have differences. May we, together, become greater than the sum of both of us.*

>Nam-tor ri thrap wilat nem-tor rim<.

*There is no offense where none is taken.*

>Shiyau thol'es k'thorai ri k'ahm<.

*Nobility lies in action not in name.*

>Tilek svi'khaf-spol t'vathu - tilek svi'sha'veh<.

*The spear in the other's heart is the spear in your own.*

>Variben veh sochya kuv nam-tor vah goh yut ha-tor<.

*He talks peace if it is the only way to live.*

>Ri klau au ik klau tu. Nufau au sochya - yi dungi ma tu sochya<.

*Do no harm to those that harm you. Offer them peace, then you will have peace.*

>Ri vath kau eh ri vath rok nam-tor na'etek hi etek kau-tor<.

*There is no other wisdom and no other hope for us but that we grow wise.*

>Pulau na'vathular k'nuhk. Nar-tor pulaya s'au k'ka'es - k'el'rular tun-bosh<.

*Reach out to others courteously. Accept their reaching in the same way, with careful hands.*

>Nam-tor wak vah yut s'vesht na'fa'wak heh pla'rak. I'wak mesukh-yut t'on<.

*Time is a path from the past to the future and back again. The present is the crossroads of both.*

>Eik-veshtaya to'ovau kau - lu veshtaya ri glazhau goh na'kastorilaya t'kashan<.

*Wide experience increases wisdom, provided the experience is not sought purely for the stimulation of sensation.*

>Spunau bolayalar t'Wehku bolayalar t'Zamu il t'Veh<.

*The needs of the many outweigh the needs of the few or the one.*

## **T'PLANA-HATH'S STATEMENT ON LOGIC**

### **Star-Krus na'Olozhika T'Plana-Hath**

Nam-tor Olozhika kluterek t'sha'sutenivaya - k'ish she-tor etek s'nezhak - isan utvau vah sha'kakhartayek.

*Logic is the cement of our civilization with which we ascend from chaos, using reason as our guide.*

## Vulcan Disciplines and Religions

### Nahrlar heh Odvalar Vuhkansu

(This is not a comprehensive guide and is meant only as an introduction.)

#### Disciplines

Ahkhinahr -- ancient training to become a battlefield psionic warrior  
 Dwemish ni-an -- training: "isolation of identity"  
 Enok-kal fi-lar -- training: processes of definition  
 Eshak -- "eschak", destructive psychokinetic effects  
 Fal-tor-pan -- refusal of body and *katra*  
 Foshinahr -- ancient training to become a defensive psionic warrior  
 Ikapirak -- meditation: "closed posture"  
 Ke-ta-yatar -- ancient fighting style designed to kill  
 Ke-tarya -- an ancient fighting style  
 Koh-nar -- "k'oh-nar", the feeling of being completely exposed in some manner  
 Kohl -- an emotion-purging mind-exercise  
 Kohl-tor -- to meditate (Vulcan-style)  
 Kolinahr -- rigorous training program at Gol to purge oneself of all emotions  
 Loshirak -- meditation: "open posture"  
 Nahr -- discipline  
 Nashinahr -- ancient training to become an offensive psionic warrior  
 Ni-prazh -- stoic, displaying no emotion(s)  
 Olozhika -- logic  
 Orensu -- student, pupil  
 Pid-trensu -- high master  
 Pihlora -- "pyllora", counselor, guide (anc.)  
 Psthan -- search, quest, hunt  
 Pthak -- fear, phobia  
 Savensu -- teacher  
 Sele-an-t'li -- secondary level of adult discipline (anc.)  
 Shaukaush -- passion(s)  
 Shaula -- self-control, reason(ing)  
 Sochya -- peace  
 T'san s'at -- a process of eliminating emotions (anc.)  
 Ta'a -- "taal", traditional Vulcan hand salute  
 Tal t'li -- first meditation of adult training  
 Tehrai -- goal  
 Tela'at -- elder (title of respect for advanced age Kolinahru)  
 Tren'es -- mastery  
 Trensus -- master  
 Tu-lan -- Vulcan breathing exercise  
 Tvi-sochya -- inner peace  
 Vedrah prah -- acceptance and negation of pain and discomfort (anc.)  
 Venlinahr -- normal state of adult discipline

**Religion:**

Ap-Lau -- a place of eternal peace, "heaven" (anc.)  
Bogozh -- a place of eternal punishment, "hell" (anc.)  
Dva -- belief  
Dvatai -- doctrine, principle, tenet  
E'shua -- demon  
Eglus -- religious shrine (anc.)  
Fa-wak-glansu -- prophet  
Faul -- sacred stone (anc.)  
Gol'nevsu -- acolyte, helper  
Ha'su -- angel, "one of light"  
Hamlan -- "The Great Oasis", a concept of paradise  
Katra -- the living essence of a Vulcan, a combination of soul & memory  
Kator-dva -- spirituality  
Korsovaya -- salvation  
Odva -- religion  
Oekon -- God, The Supreme Being  
Ofereiksu -- The Creator (ie, God)  
Osu -- holy person, saint  
Ozhit -- "The Word", holy scriptures  
Reldai -- female religious leader, ruler or princess (anc.)  
Ri-fainu -- the Unknown  
Sha-ka-ri -- mythical source of creation (anc.)  
Tam'a -- ghost, spirit (anc.)  
Trufemu -- martyr  
Ven-dol-tar -- philosophy (anc.)

## Vulcan Rituals and Ceremonies

### Ho-Rahlar heh Van-Kallar Vuhkansu

#### **KAN-TELAN** **Child Bonding**

One of the oldest surviving Vulcan traditions is the bonding of children when they are at least seven years old. Although the vast majority of Vulcans were bonded this way in the past, more and more families in modern times are choosing to forego this tradition and let their children bond with a person of their choice as adults. It is predicted that the child bonding tradition may completely disappear in less than two hundred years on T'Khasi.

Traditionally, families would bond their male child to the female child of another clan for political or prestige reasons. In more recent times, it became more common for childhood friends, classmates or coworkers to discuss the prospects of bonding their compatible children. Of course, in a perfect world, it would always be possible to match your child with another child of the same age. This is not always the case. It is not at all rare for the family of the male child to delay bonding their son until the intended female child reaches the age of seven. Thus, although most Vulcan couples that bonded as children are the same age, it is entirely possible to find a gap in age of perhaps two or three years.

The ceremony is conducted by a Vulcan master at the male child's clan ceremonial site. Below you will find an example of the child bonding ceremony. We will use the example of a male child named Stola and a female child named T'Lita.

#### **Traditional Golic:**

Master: Na'shayalar na'kanok-veh la. Etek hoknau fi'nash-mazhiv  
na'telan t'Stola eh t'T'Lita. | da-tor na'sa-mekh t'sa-kan |  
Sitok - sa-fu t'Skonn - sa-fu t'Sumek - nam-tor sha'kan t'ya'shakhuv na'telan?  
Sitok: Ish-veh nam-tor.  
Master: | da-tor na'sa-mekh t'ko-kan |  
Subek - sa-fu t'Saruk - sa-fu t'Sebuk - Nam-tor sha'kan t'ya'shakhuv na'telan?  
Subek: Ish-veh nam-tor.  
Master: Kal-tor palikau. | takau kanlar fa'rak |  
Stola - sa-fu t'Sitok heh t'T'Luba - nam-tor du na'telan?  
Stola: Nash-veh nam-tor.  
Master: | da-tor na'ko-kan |  
T'Lita - ko-fu t'Subek heh t'T'Linu - nam-tor du na'telan?  
T'Lita: Nash-veh nam-tor.  
| yi afer-tor trensu kash-naf k'kanlar |  
Master: Kashkau -- wuhkuh eh teretuhr --  
Estuhn wi ri estuhn -- k'wuhli wi ri k'wuhli --  
Stola: Estuhn wi ri estuhn -- k'wuhli wi ri k'wuhli --  
T'Lita: Estuhn wi ri estuhn -- k'wuhli wi ri k'wuhli --  
Stola & T'Lita: Nam-tor etek wuhkuh.  
Master: Ki'navau telan -- | i'trasha naf |  
Lu sarlah pon farr - dunggi-fun-tor na'nash-shi na'kun-ut kali-fi. Sochya eh dif.  
Stola & T'Lita: Dif-tor heh smusma.

## Federation Standard:

High Master: Greetings to everyone present. We are gathered on these sands for the bonding of Stola and T'Lita. (turns to the boy's father)  
 Sitok, son of Skonn, son of Sumeck, is your child of age for bonding?  
 Sitok: He is.  
 Master: (nods and turns to the girl's father)  
 Subek, son of Saruk, son of Sebuk, is your child of age for bonding?  
 Subek: She is.  
 Master: Let it begin. (beckons the children forward)  
 Stola, son of Sitok and T'Luba, are you prepared for bonding?  
 Stola: I am.  
 Master: T'Lita, daughter of Subek and T'Linu, are you prepared for bonding?  
 T'Lita: I am.  
 (the master then establishes a mind-link with both children)  
 Master: Our minds, one and together . . .  
 Touching, yet not touching; apart, yet never apart . . .  
 Stola: Touching, yet not touching; apart, yet never apart . . .  
 T'Lita: Touching, yet not touching; apart, yet never apart . . .  
 Stola & T'Lita: We are one.  
 Master: The bonding has succeeded . . . (the link is broken)  
 When the pon farr comes, you will return to this place for the kun-ut kali-fi.  
 Peace and long life.  
 Stola & T'Lita: Live long and prosper.

## KOLINAHR

### Adult Emotion Purging Discipline

Most adult Vulcans are satisfied with achieving *Venlinahr*, the normal state of adult discipline, which most have little difficulty achieving. Roughly 10% of adult Vulcans, though, choose to undergo the rigorous and often long training process called *Kolinahr*, which leads to the complete cleansing of all emotions and the embracement of total logic. Not all who begin the *Kolinahr* training will finish it, due to many factors and all the disciplines that must be mastered. Each student's training is supervised directly by one of the head acolytes at Gol and periodically monitored by the High Master herself.

The actual training has no strict time-frame and is customized with regards to the strengths and weaknesses of each student. More than one person has completed *Kolinahr* in less than a year, but it is most common for someone to spend approximately two to three years in training, at a minimum, to achieve *Kolinahr*. At the completion of the training, the High Master herself will conduct the traditional completion ceremony. She will mind-meld with the student to verify that *Kolinahr* has, in fact, been achieved. If successful, the student will be presented with a symbol of total logic to wear around the neck on traditional occasions. The symbol is partially designed by the student during training, so the symbol is unique for each person. This is logical, since all people are unique.

Below you will find an example of the traditional closing ceremony between the High Master and Student at the end of successful *Kolinahr* training in both Traditional Golic Vulcan and Federation Standard English. The current High Master of Gol is T'Sai and she uses a less "old-fashioned" type of speech than her predecessors. We will use the example of a student named Sovuk here. The acolyte is the one who supervised that person's training.



### Traditional Golic:

High Master: Dakh orfik-kel aushfamaluhr shaukaush fi'aifa mazhiv.  
 Sha'koshtri korseiven bai'elkhrul-akteiben t'Kolinahr.  
 Acolyte: Kolinahr -- k'fai'ei ek'zherka t'forti foshuhl.  
 High Master: Zup-tor vu akarshif - Sovuk --  
 i'poprah fasei setebuhk t'ovsot-olozhika.

| Shitau setebuhk pa'talu t'orensu - zahal-tor k'kash-naf |

High Master: Kashkau - Sovuk - wuhkuh eh teretuhr --  
 du naval srashiv t'Kolinahr. Zherka worla tu dungi-tash-tor va'ashiv.  
 Student: Nash-veh itar-bosh. Sochya eh dif.  
 High Master: Dif-tor heh smusma.

### Federation Standard:

High Master: Our ancestors cast out their animal passions here on these sands.  
 Our race was saved by attainment of Kolinahr.  
 Acolyte: Kolinahr: Through which all emotion is finally shed.  
 High Master: You have labored long, Sovuk . . .  
 now receive from us this symbol of total logic.

(The symbol is placed around the student's neck, followed by the mind-meld.)

High Master: Our minds, Sovuk, one and together . . .  
 You have attained Kolinahr. Emotions will never control you again.  
 Student: I am grateful. Peace and long life . . .  
 Master: Live long and prosper.

### Kun-ut Kali-Fi eh Pon Farr Marriage Challenge and Pon Farr

Upon the reaching of pon farr (mating time), male Vulcans begin to experience progressively more serious biochemical changes, ultimately leading to plak-tau (blood fever) which necessitates that they complete the *kun-ut kali-fi* or suffer madness and death. The onset of pon farr varies from individual to individual and depends on many factors, including genetics, environment, diet, and mental discipline. If the Vulcan is on-planet, they immediately will return to their traditional family lands. If the Vulcan is off-planet, they must make arrangements to return to Vulcan as quickly as possible.

If the Vulcan is bonded, his intended will know through their link that pon farr has arrived. The changes in the male will trigger biochemical changes in his female counterpart, regardless of the distance involved. The female will inform her clan matriarch of the arrival of pon farr, who will in turn inform the clan matriarch of the male's family. The male's family will arrange for the *kun-ut kali-fi* ceremony to take place at the clan's traditional place.

If the Vulcan is unbonded when pon farr arrives and he is not under the control of the plak-tau, his family will make arrangements for several satisfactory potential mates to be available for his choosing. He will make his own selection based on a logical weighing of the qualities of the potential mates. This is known as *telsu dvelan* (bondmate selection). If the unbonded Vulcan is under the control of the plak-tau, his family will

either select a suitable mate for him (the most common option) or hold a modified version of the *kun-ut kali-fi*, known as the *ko-telsu kali-fi* (wife challenge), where interested females fight for the privilege to be bonded with the male. They do not necessarily fight to the death. Once a female has been selected, the usual *kun-ut kali-fi* takes place.

Below you will find an example of the ritual communication between two Vulcans who were bonded as children and are making their first contact as adults prior to the *kun-ut kali-fi* ceremony, as well as two examples of the *kun-ut kali-fi* ceremony, in both Traditional Golic Vulcan and Federation Standard English. The first example is without a challenge, the second where a challenge is given. For the "with challenge" example, we have chosen a case where the female intended has declared "kali-fi". Although not detailed here, it is also possible for another adult male present to declare his desire for the female and call for "kali-fi", although that is seldom seen. A version of the *ko-telsu kali-fi* may also occur, where another female present will issue a challenge against the intended female and will fight for the male.

We will use "Snokk" for the male, "T'Pril" for the female and "T'Puk" for the matriarch.

## Reunion Greeting Prior to Kun-ut Kali-fi

### Traditional Golic:

T'Pril: Snokk, nam-tor nash-veh.

Snokk: T'Pril, dahshal s'nash-veh heh worla dahshal. Worla eh kwon-sum estuhn heh vesht estuhl. Ragel-tor etek na'shi kru'minik.

T'Pril: Snokk, dahshal s'nash-veh heh worla dahshal. Worla eh kwon-sum estuhn heh vesht estuhl. Bek-tor tu nash-veh.

### Federation Standard:

T'Pril: Snokk, it is I.

Snokk: T'Pril, parted from me and never parted. Never and always touching and touched. We meet at the appointed place.

T'Pril: Snokk, parted from me and never parted. Never and always touching and touched. I await you.

## Kun-ut Kali-fi Without A Challenge

### Traditional Golic:

Lates Snokk na'svitan t'shi'kun-ut kali-fi eh kus-tor wuh'wak van-kal-kep gluvaun lashaan t'ish-veh. Po'svizh kus-tor ish-veh dah'rak wak glantokau pok'es na'van-kal palikau. I'svi-tor kun-ut-travek - fulagan k'pid-kom t'maat t'sasu. Lau il ri lau nam-tor la vath pi'maat-kisular t'on-okeleklar - fupa s'dvel t'wuhsular.

Po'lashaan t'kun-ut-travek heh ki-shitau ek'shailar - tan-tor Snokk heh sha'maat-pid-kom ho-ta'a - zahalan k'pi'kash-naf wugau pon farr. Kuv ma la Snokk t'hai'lalar - ragtau ish-veh au na'pid-kom.

T'Puk: Ra tu ak gla-tor tev-tor s'wak t'Palikaya. Nam-tor u'khaf-spol Vuhlkansu - nam-tor u'katra Vuhlkansu - nam-tor u'sha'yut. | Svizh | Kali farr..

Po'utvauk svizh heh ki-poprah ri kali-fi, kus-tor Snokk van-kal-kep reh'rak wak glantokau kun-ut van-kal dungau-palikau. I'dungi-sarlah fa'rak T'Pril heh svi-tor shif kash-naf k'pid-kom. Kuhlau ish-veh kun-ut-tel heh palikau svi'on tel-tau.

T'Puk: Pon farr..

I'ruk-tor ek'vathlar svi'kan-val shi'kun-ut kali-fi - nam-tor kulauf shif - pid-kom heh fash-klashausu. K'shif i'on ne'plak-tau - dungi-glantau pid-kom plathaya t'kun-ut.

### **Federation Standard:**

Snokk walks to the center of the place of kun-ut kali-fi and rings the ceremonial gong once to show his arrival. After a pause, he rings it a second time to signal his readiness for the ceremony to commence. The marriage party now enters, lead by the matriarch of the male's clan. Other family members of both houses may or may not be present, according to the choice of the individuals.

After the marriage party has arrived and all have taken their places, Snokk and his clan matriarch give each other the ritual hand greeting, followed by a brief mind meld to confirm pon farr has arrived. If Snokk has friends present, they are introduced to the matriarch.

T'Puk: What you are about to see comes down from the time of the Beginning. This is the Vulcan heart, this is the Vulcan soul -- this is our way. (Pause) Kali farr! (Time of challenge!)

After a reasonable pause and having received no challenge, Snokk rings the ceremonial gong a third time to signal the marriage ceremony is to begin. T'Pril will now come forward and the couple will enter into a mind meld with the matriarch. She will complete the marriage bond and initiate the bonding fever in both.

T'Puk: Pon farr! (Time of mating!)

All others at the ceremony will now exit the place of kun-ut kali-fi, except for the couple, the matriarch and a hooded guard. With the couple now both in the plak-tau, the matriarch will observe the consummation of the marriage.

### **Kun-ut Kali-fi With A Challenge**

#### **Traditional Golic:**

Lates Snokk na'svitan t'shi'kun-ut kali-fi eh kus-tor wuh'wak van-kal-kep gluvaun lashaan t'ish-veh. Po'svizh kus-tor ish-veh dah'rak wak glantokau

pok'es na'van-kal palikau. I'svi-tor kun-ut-travek - fulagan k'pid-kom t'maat t'sasu. Lau il ri lau nam-tor la vath pi'maat-kisular t'on-okeleklar - fupa s'dvel t'wuhsular.

Po'lashan t'kun-ut-travek heh ki-shitau ek'shailar - tan-tor Snokk heh sha'maat-pid-kom ho-ta'a - zahalan k'pi'kash-naf wugau pon farr. Kuv ma la Snokk t'hai'lalar - ragtau ish-veh au na'pid-kom.

T'Puk: Ra tu ak gla-tor tev-tor s'wak t'Palikaya. Nam-tor u'khaf-spol Vuhlkansu - nam-tor u'katra Vuhlkansu - nam-tor u'sha'yut. | Svizh | Kali farr..

Betau Snokk van-kal-kep reh'wak kus-tor hi ash-tor T'Pril svi'ish-veh eh kep.

T'Pril: Kali-fi..

K'kali-fi ki'tan-tor, dungi-saseshau Snokk na'vla bek-tor sarlahik vik-mor. Palikau k'danik nuflar plak-tau neman tash.

T'Puk: T'Pril - ki'dvel-tor du kali-fi. Du datorik shetau veltra t'skilsu?

T'Pril: Nash-veh datorik.

T'Puk: Snokk - nar-tor du kali-fi fupa s'sha'to-gavlar heh s'oyutlar?

Lau il ri lau Snokk kilko neraun uf glu ish-veh svi'plak-tau. Kuv kup-stariben - dungi-nar-tor ish-veh kali-fi - vathru nar-tor na'ish-veh.

T'Puk: T'Pril, dungi-dvel-tor du sha'skilamu.

T'Pril: U vesht nam-tor svi'shu-pal t'sha'gadlar - u nam-tor nash-gad - u dungi-nam-tor na'ek'fa-gadlar - tor sha'dvel. Dvel-tor nash veh.

Dungi-sasfekau T'Pril sha'skilamu. K'nash-nuf sasu k'ahm Tupak. Tan-tor zam-wak na'skilamu panah-tor.

T'Puk: Nam-tor torik. Tupak - klopau.

Tupak: Nar-tor nash-veh kali-fi.

T'Puk: La'palikau torai t'vik-mor na'mat t'kosu T'Pril. U vesht svi'wak t'Palikaya - dom i'nam-tor. Katau fa'rak lirpa.

Dungi-katau fa'rak dah van-kal-klashausu lirpalar heh tan-tor wuh-tik na'Snokk heh na'Tupak.

T'Puk: Kuv rish-tor on lirpa - dungi-fator vik-mor k'ahn-wun. Ki'palikal - kal-tor kling snertau.

Pla-tor s'yut kanok-veh hi Snokk heh Tupak. Dungi-palikau vik-mor. Dungi-puk-tor au k'lirpalar abi'wuhkuh t'au tevik il k'puu wuhkuh t'lirpalar shauk. Kuv wi'ha-tor on - dungi-fator vik-mor k'ahn-wun. K'rikesik nuf rish-tor on ahn-wun - dungi-fator vik-mor k'hayaik wunlar t'dvel t'pid-kom | vinaman lipitahlar - tileklar - sheklar il vath-wunlar | abi'wuhkuh stauk.

T'Puk: Snokk - ki'fakoval du svi'vik-mor na'mat t'kosu T'Pril. Istau tu tel-tor k'ish-veh ya'akashan kali-fi?

K'kanok-nuf fainu torai t'vik-mor na'tevakh k'vathsu dung-shau plak-tau eh kal-tor sasu tabakau be-tsuritash t'shai. Skilan-sasu dung-panah-tor k'olozhika dvel - kuv il ri tel-tor k'kosu man vetlar pa'ish-veh eh vesht ya'akash kali-fi. Nam-tor ri gubi kuv sasu dvel-tor el-tor kosu s'sha'tel - tsuri dung-tor. Kuv ish-veh dvel-tor ovsoh tel - nam-tor kesik shif dung-ha-tor k'wuhli po'plathaya t'tel.

Snokk: Nafai-tor nash-veh - du vesht dung-nam-tor ko-telsu ma vetlar u donik'es na'sa-telsu. El-tor du nash-veh s'sha'tel. Dif-tor heh smusma. T'Pril: Dif-tor heh smusma - Snokk.

Pid-kom lau il ri lau tor star-krus ikap-tor van-kal.

### **Federation Standard:**

Snokk walks to the center of the place of kun-ut kali-fi and rings the ceremonial gong once to show his arrival. After a pause, he rings it a second time to signal his readiness for the ceremony to commence. The marriage party now enters, lead by the matriarch of the male's clan. Other family members of both houses may or may not be present, according to the choice of the individuals.

After the marriage party has arrived and all have taken their places, Snokk and his clan matriarch give each other the ritual hand greeting, followed by a brief mind meld to confirm pon farr has arrived. If Snokk has friends present, they are introduced to the matriarch.

T'Puk: What you are about to see comes down from the time of the Beginning. This is the Vulcan heart, this is the Vulcan soul -- this is our way. (Pause) Kali farr! (Time for challenge!)

Snokk approaches the ceremonial gong to ring it a third time but T'Pril steps between him and the gong.

T'Pril: Kali-fi!

With challenge having been given, Snokk will withdraw to the side to await the coming combat. In most cases, the plak-tau will begin to take control.

T'Puk: T'Pril, you have chosen the kali-fi. You are prepared to become the property of the victor?

T'Pril: I am prepared.

T'Puk: Snokk, do you accept the kali-fi according to our laws and customs?

Snokk may or may not reply, depending on how deep he is in the plak-tau. If able to speak, he will accept the challenge, otherwise it is accepted for him.

T'Puk: T'Pril, you will chose your champion.

T'Pril: As it was in the dawn of our days, as it is today, as it will be for all tomorrows, I make my choice. I choose this one.

T'Pril will point out her champion. In this case, a male named Tupak. A couple minutes are given for the champion to consider.

T'Puk: It is done. Tupak, decide.

Tupak: I accept *kali-fi*.

T'Puk: Here begins the act of combat for possession of the woman T'Pril. As it was at the time of the Beginning, so it is now. Bring forth the *lirpa*.

Two ceremonial guards will bring forth the *lirpas* and give one each to Snokk and Tupak.

T'Puk: If both survive the *lirpa*, combat will continue with the *ahn-wun*. It has begun, let no-one interfere.

Everyone but Snokk and Tupak will back out of the way and the combat will begin. They will fight with the *lirpas* until one of them is dead or at least one of the *lirpas* is broken. If both are still alive, the combat will continue with the *ahn-wun*. In the unlikely event that both survive the *ahn-wun*, combat will continue with additional weapons of the matriarch's choice, including daggers, spears, swords or other weapons, until one is killed.

T'Puk: Snokk, you have prevailed in combat for possession of the woman T'Pril. Do you wish to bond with she who requested the *kali-fi*?

In every known case, the act of combat to the death with another will break the *plak-tau* and allow the male to regain near-normal control of himself. The winning male will have to weigh logically the choice of whether or not to bond with a woman who had doubts about him and requested *kali-fi*. There is no stigma if the male chooses to free the female from their bond and this is usually done. If he chooses to complete the bond, it is likely that the couple will live separately after consummating the bonding.

Snokk: I acknowledge that you who would be my wife has doubts as to my worthiness as a husband. I free you from our bond. Live long and prosper.  
T'Pril: Live long and prosper, Snokk.

The matriarch may or may not make a statement to close the ceremony.

## **Nath-Pal-Nahr**

### **Youth Emotional Control Discipline**

Vulcan youth who have been declared continually and unrepentantly "over-emotional" by their families and/or teachers are usually sent to a Vulcan Master for rigorous mental training. This usually occurs after the youth is expelled from classes and/or banished from their families after a number of "emotional" incidents and/or a clear pattern of behavior is observed. Although youths who require additional mental discipline training beyond what is normally provided to all young Vulcans are not common, they are not rare either. This is due to the nature of being a Vulcan. The *Nath-Pal-Nahr* is considered the last chance for a young person to gain control over emotions and be welcomed in normal Vulcan society. Although the training is usually conducted by one of the Vulcan masters at Mount Seleya or even Gol, any qualified master may conduct the training. Normally the parents of the youth will select a master known to them personally or perhaps who is a member of the same clan. Failure to accept or finish the *Nath-Pal-Nahr* will invariably lead to being declared "vrekasht" (outcast).

Below you will find an example of the simple traditional closing exchange between Master and Student at the end of successful *Nath-Pal-Nahr* training in both Traditional Golic Vulcan and Federation Standard English. Elements of this may be slightly altered to customize the exchange depending on the type(s) of emotion(s) that lead to the training. Successful conclusion of this training leads, in nearly all cases, to being welcomed back into one's family and regaining one's seat in school.

### **Traditional Golic:**

Master: Va'Vuhnaya --

Student: s'Va'Terishlar.

Master: Noshau sha'ranaya i'ov-sot. Ki'tor du muhl.

Student: Nash-veh odu itaren.

Master: I'datorik du fun-tor na'panu. Tushat - reshan - pthak heh wa'son-ha-lohk worla tu dungi-nan-tor va'ashiv.

Student: Nash-veh itar-bosh. Sochya eh dif.

Master: Dif-tor heh smusma.

### **Federation Standard:**

Master: Infinite diversity . . .

Student: In infinite combinations.

Master: Your training is now complete. You have done well.

Student: Thank you.

Master: You are now prepared to return to the world. Grief, anger, fear and, especially, love will never threaten you again.

Student: I am grateful. Peace and long life . . .

Master: Live long and prosper.

## **Vok-Van-Kal Memorial Service**

A brief memorial service or ceremony is held soon after the death of a Vulcan. It is usually presided over by a Vulcan Master, if not a High Master, and attended by the immediate family, clan members, friends, colleagues, and any other interested parties. For an important person, the ceremony may be held at Mount Seleya itself, but the services of most ordinary Vulcans are held at their clan ceremonial grounds. The body is not present at the ceremony, having already been buried or cremated.

Below you will find an example of the typically brief Vulcan memorial service in both Traditional Golic Vulcan and Federation Standard English. For our purposes, we will call the recently departed "Suvak" and his wife, "T'Lisu".

### **Traditional Golic:**

Master: Dor-tor etek nash-gad vokaya t'Suvak - sa-fu t'Sumuk

Nam-tor ek'etek nelauk k'tevakh hi vesht tvidonik k'la'es t'o'ish-veh.

| pi'svizh |

Dor-tor etek nash-gad o'ish-veh -- doran sa-telsu - doran sa-mekh -

doran sa-kai - doran ek'talsu. Noshau ha'kiv t'o'ish-veh wuhkuh

t'dan-fudaya eh t'dan-vam  
| kuv wi ha'an ko-telsu t'Suvak - i'stariben ish-veh t'sha'sa-telsu -  
zahalan k'kanlar s'keshtan-zek - kuv aitlu fan-vel hau |  
T'Lisu: Pi'maat heh t'hai'lu -- sochya eh dif.  
Master (k'eku la): Dif-tor heh smusma.

### **Federation Standard:**

Master: Today we honor the memory of Suvak, son of Sumuk.  
We are all diminished by his death but we were enriched by his presence.  
(a brief pause)  
Today we honor him: We honor the husband, the father, the brother, the  
scientist. His life is one to be held in the highest regard and esteem.  
(If Suvak's wife is still living, she will now speak about her husband, followed  
by their children in birth order, if they wish to add anything.)  
T'Lisu: My family and friends . . . peace and long life.  
Master (on behalf of all present): Live long and prosper.



## Vulcan Foods and Dishes

### Yem-tukh heh Yem-tevlar T'Khasi

## INTRODUCTION

### Ragtaya

Although the vast majority of contemporary Vulcans are vegetarians by choice, Vulcans were omnivorous for most of the time prior to the time of Surak. The only Vulcans that eat meat nowadays are certain outcasts, a very small cultural sub-group in the southern hemisphere of Vulcan and some inhabitants of distant Vulcan colonies. The Romulans, descended from Vulcan exiles, also are omnivorous. Most Vulcans will eat meat in situations where not to do so would be a cultural insult in "alien" surroundings and, of course, in survival situations where whatever food is available must be eaten. They find these situations logical, though distasteful. Some contemporary Vulcans will eat replicated meat, as they consider it only patterned after real meat, and not the actual flesh of a creature, whereas many Vulcans will eat no meat real or replicated. An extremely small minority group of Vulcans is so militantly vegetarian, that they would rather die than eat the flesh of another living thing. A few members of this very small faction have even been known to commit terroristic acts against producers and suppliers of meat for consumption.

## EXAMPLES OF VULCAN FOOD

### Li-fallar t'Yem-tukh T'Khasi

- Adronn feltara
- B'ltarr
- K'torr (c'torr)
- Filrak
- Farr-kahli
- Fori (a type of vegetable)
- Hirat (a grape-like fruit)
- Ihntya
- Kahri-torrafeiyaka (kahri-torrafeiyaca)
- Kasa (a type of fruit)
- Kheh (a type of grain)
- Klitanta s'mun t'forati (kleetanta with forati sauce)
- Kreila ("kreylla", a flat bread-like food)
- L'lersa (l-lersa)
- Mashya (a tuberous vegetable)
- Miya-zed (mia-zed)
- Pla-savas ("blue fruit", a sweet blue to black-colored fruit)
- Plomik ("plomeek", a type of vegetable)
- Sash-savas ("acid fruit", a strong, citrus-like oblong fruit)
- Shur t'bertakk (bertakk soup)
- Shur t'plomik (plomeek soup)
- T'koraka (t'coraca)
- Theris-masu (an herbal tea)
- Yon-savas ("fire fruit", a strongly flavored yellow to red-colored fruit)

## **Vulcan Leisure-Time Activites (Including Sports and Games)**

### **El-Wak-Toranlar Vuhlkansu | k'Vinam t'Torvukhlar heh t'Zhagralar |**

(This is not a comprehensive guide and is meant only as an introduction  
to the terminology used in these activities.)

#### **Arts, Crafts & Hobbies**

Bahan -- gardening  
 Bestan -- drawing  
 Buhn-tershaun -- coin collecting  
 Dun-zhukan -- paper-making  
 Dunapshaun -- book-binding  
 Fasan -- cooking  
 Fereikan -- inventing  
 Ha'gel-tanaf -- photography  
 Halovaun -- traveling  
 Hashan -- flying  
 Hishan -- printing  
 Kastik-sokasitaun -- plant cultivation  
 Kitaun -- writing  
 Kla-hilan -- researching  
 Kohlan -- meditating  
 Kov-skriman -- stonecarving  
 Krasan -- painting  
 Lapan-skriman -- woodcarving  
 Leipaun -- baking  
 Lubestan -- sketching  
 Mahalan -- swimming  
 Makh-saluran -- glass-blowing  
 Makh-zhukan -- glass-making  
 Masu-halovaun -- sailing  
 Mavaun -- playing  
 Men-hilan -- investigating  
 Ogan -- sewing  
 Peran -- acting  
 Ralash-tanaf -- music  
 Sna-lok-zhukan -- mosaic-working  
 Svai-zehlaun -- floral arranging  
 Taman -- dancing  
 Tanaf -- art  
 Telvan -- reading  
 Uralaun -- singing

### Children's Games

Dap-lan-pa -- similar to "mercy" or "uncle" (anc.)  
 Fon-ta-nel -- similar to "blindman's buff" (anc.)  
 Kai-ros -- similar to "hopscotch" (anc.)  
 Le-matya eh Sehlat -- similar to "cowboys & indians" or "cops & robbers"  
 Mesya -- similar to "tag"  
 Narat do-toh -- similar to "hide & seek" (anc.)  
 Shau-zehl -- "break-line", a game similar to "red rover"  
 Val -- "chip", a playing piece in *Vallar heh Keh-vlalar*  
 Vallar heh Keh-vlalar -- "chips & squares", a game similar to "checkers"

### Strategy Games

Kovlar -- "Stones", a game similar to Japanese "Go"  
 Mav-dohn -- game board  
 Nesh-kur heh Yon-kur -- "black & red", a game similar to "backgammon"  
 Reh-vla -- "triangle", a three-person board game of strategy

### Games of Logic

Fu -- ancient logic puzzle that originally used the shells of a snail-like animal  
 Kal-toh -- a Vulcan logic puzzle (anc.)  
 T'an -- rod used in *kal-toh* puzzle (anc.)

### Game of Chess

Ask'ersu -- "soldier", the pawn  
 Dah-retuka-tches -- two-dimensional chess  
 Dvun -- move  
 Kenelsu -- "kenel-rider", the knight  
 Klomak -- "fortress", the rook  
 Ko-te'kru -- the queen  
 Kum-tor -- to capture another's piece  
 Mav-dohn -- game board  
 Nan -- "threat", check  
 Pash -- "trap", checkmate  
 Reh-retuka-tches -- three-dimensional chess  
 Sa-te'kru -- the king  
 Skaf -- platform  
 Tches -- "chess" (word "Vulcanized" from the Terran word for the game)  
 Vaisu -- "holy man", the bishop  
 Vitaya -- "stasis", stalemate

### Solo Sports

Izh-haltan -- skiing  
 Kov-manan -- rock-climbing, mountain-climbing

Sahran -- running

### **One-on-one sports**

Ozh-dukal-pukan -- boxing

Vo'ek-pukan -- wrestling

Vish-peh-nath -- ancient sport similar to "sumo wrestling"

Wehk-pukan -- martial arts

### **Team Sports**

Ash'ya-dukal -- soccer

Ki'haf-dukal -- basketball

Nen-dukal -- baseball

## Professions & Trades

### Ha-Yigallar heh Tingallar

Below is a sampling of the many professions and trades available to contemporary Vulcans. Despite living in an age with replicator technology, many Vulcans have chosen to continue the traditional professions of their ancestors.

#### Miscellaneous

Bahsu -- gardener  
 Dun-zhukusu -- paper-maker  
 Dunapshausu -- book-binder  
 Fassu -- cook  
 Fereiksu -- inventor  
 Ha'gel-tanafsu -- photographer  
 Hashsu -- pilot  
 Hishsu -- printer  
 Kastik-sokasitausu -- plant cultivator  
 Kitausu -- writer  
 Kla-hilsu -- researcher  
 Kov-skrimusu -- stonecarver  
 Krassu -- painter  
 Lapan-skrimusu -- woodcarver  
 Leipausu -- baker  
 Makh-salursu -- glass-blower  
 Makh-zhukusu -- glass-maker  
 Men-hilsu -- investigator  
 Ogsu -- seamster, seamstress  
 Per-ithop -- actor, actress  
 Ralash-tanafsu -- musician  
 Sna-lok-zhukusu -- mosaic-worker  
 Svai-zehlausu -- floral arranger  
 Svai-zhukusu -- florist  
 Tamsu -- dancer  
 Tanafsu -- artist  
 Uralausu -- singer

#### Military Positions

Ask'ersu -- soldier  
 Dah-gol'nevsu -- yeoman, 2nd Class  
 Dah-traveksu -- master sergeant (land forces), 2nd Class P.O. (naval/Starfleet)  
 Feihan -- chief petty officer  
 Fosh-lan -- first lieutenant (land forces), lieutenant(jg) (naval/Starfleet)  
 Halitra-lan -- admiral  
 Kahr-lan -- general  
 Khart-lan -- captain (naval/Starfleet)  
 Masusu -- sailor/seaman  
 Ne-lan -- cadet  
 Neksu -- corporal

Nensu -- crewman  
 Nik'el-lan -- rear admiral  
 Ot-lan -- captain (land forces), lieutenant (naval/Starfleet)  
 Reh-gol'nevsu -- yeoman, 1st Class  
 Reh-traveksu -- sergeant major (land forces), 1st Class P.O. (naval/Starfleet)  
 Shal-lan -- colonel  
 Shaltra-lan -- vice admiral  
 Tra-lan -- major (land forces), lieutenant commander (naval/Starfleet)  
 Travek-lan -- commodore  
 Ulef-lan -- warrant officer  
 Wuh-gol'nevsu -- yeoman, 3rd Class  
 Wuh-lan -- second lieutenant (land forces), ensign (naval/Starfleet)  
 Wuh-traveksu -- sergeant (land forces), 3rd Class P.O. (naval/Starfleet)  
 Zhel-lan -- lieutenant colonel (land forces), commander (naval/Starfleet)

### Medical Positions

Gisam-talsu -- toxicologist  
 Gnal-talsu -- oncologist  
 Ha-meil-talsu -- biochemist  
 Ha-tor-talsu -- biophysicist  
 Has-sak-talsu -- epidemiologist  
 Has-talsu -- pathologist  
 Haseretsu -- pharmacist  
 Hinek-talsu -- osteologist  
 Is-lof-talsu -- physiologist  
 Kapol-nafek-talsu -- nephrologist  
 Kashan-nesu -- anesthesiologist  
 Kashkau-talsu -- psychiatrist  
 Khaf-spolsu -- cardiologist  
 Khaf-talsu -- hematologist  
 Kloshai-talsu -- psychologist  
 Luk-talsu -- mycologist  
 Nala-talsu -- cytologist  
 Nehasamek-talsu -- hepatologist  
 Numo-ha-talsu -- microbiologist  
 Numo-kelek-talsu -- histologist  
 Pekh-vat-talsu -- proctologist  
 Ralash-talsu -- audiologist  
 Shakhu-talsu -- geriatricist  
 Shakhuvaya-talsu -- gerontologist  
 Skaun-ek'ur-talsu -- gastroenterologist  
 Tash-noshtra-talsu -- eugenicist  
 Tevanu-talsu -- coroner  
 Tevikehsu -- mortician  
 Tol-talsu -- geneticist  
 Uzh-keshtusu -- neonatologist  
 Vazh-ek'ur-talsu -- urologist  
 Vukhut-dvun-talsu -- kinesiologist  
 Vukhut-mevsu -- angiologist  
 Vukhut-talsu -- anatomist  
 Wadi-talsu -- dermatologist

**Scientific Positions**

Aikum-talsu -- selenologist  
Akan-ha-talsu -- xenobiologist  
Aushfa-talsu -- zoologist  
Ek'nosh-talsu -- climatologist  
Ek'tukh-talsu -- mineralogist  
Galu-tor-talsu -- nuclear physicist  
Gen-lis-talsu -- linguist  
Ha-meil-talsu -- biochemist  
Ha-talsu -- biologist  
Ha-tin-talsu -- biostratigrapher  
Ha-tor-talsu -- biophysicist  
Igen-va-talsu -- meteorologist  
Kastik-talsu -- botanist  
Kominsu-talsu -- anthropologist  
Kov-meil-talsu -- petrochemist  
Kov-talsu -- petrologist  
Lap-kuv-talsu -- dendrochronologist  
Le-suma-talsu -- glaciologist  
Malat-talsu -- ecologist  
Masu-dvun-talsu -- hydrodynamicist  
Masu-mish-talsu -- hydrologic engineer  
Masu-talsu -- hydrologist  
Masutra-ha-talsu -- marine biologist  
Masutra-mish-talsu -- oceanologist  
Masutra-talsu -- oceanographer  
Meil-talsu -- chemist  
Ne'rak-masu-talsu -- geohydrologist  
Numo-ha-talsu -- microbiologist  
Ravot-talsu -- entomologist  
S'udish-ha-talsu -- exobiologist  
S'udish-solektra-talsu -- astrogeologist  
Shila-talsu -- sociologist  
Slor-masu-talsu -- limnologist  
Solek-talsu -- pedologist  
Solektra-hutaya-talsu -- seismologist  
Solektra-meil-talsu -- geochemist  
Solektra-shid-talsu -- geomorphologist  
Solektra-talsu -- geologist  
Solektra-tor-talsu -- geophysicist  
Sov-masu-talsu -- hydrometeorologist  
Stukh-talsu -- astrophysicist  
Stukhtra-talsu -- cosmologist  
Tauk-talsu -- speleologist  
Tol-talsu -- geneticist  
Tor-talsu -- physicist  
Ukraluk-talsu -- herpetologist  
Uroz-solek-talsu -- agronomist  
Vath-ek'tra-talsu -- planetologist  
Vesht-aushfa-talsu -- paleozoologist

Vesht-ek'nosh-talsu -- paleoclimatologist  
Vesht-ha-talsu -- paleontologist  
Vesht-kastik-talsu -- paleobotanist  
Vesht-komihnsu-talsu -- paleoanthropologist  
Veshtsu-talsu -- archaeologist  
Yel-talsu -- astronomer  
Zhit-vesht-talsu -- etymologist  
Zul-kunel-talsu -- vulcanologist



## **A History of the Planet Vulcan**

### **Vesht-var t'Ek'tra T'Khasi**

The history of the planet Vulcan has been a great mystery to many beings both in and outside of the United Federation of Planets (UFP). Vulcans tend to be a very private people and only reveal that which is necessary. This secrecy about their past and some of their customs is protected under the terms of their membership in the Federation. Much of the known history of the Vulcan home planet is sketchy or even contradictory. Even the name of their planet has caused confusion. The real name of their planet was not revealed at first contact with Earth and was unknown for many years early in the UFP. Due to the pronunciation of a term that the first Vulcans used to refer to themselves, humans after first contact called the Vulcans "Voolcanu" and therefore inferred the name of their homeworld to be "Voolcan". After the formation of the UFP, Vulcans became known as "Vulcanians" and their planet was called "Vulcanis". In time, the shared term "Vulcan" for the people and their planet came into popular use and it continues to this day. Modern Vulcans call themselves "Vuhlkanu" or "Vuhlkansular", and the official name for their planet is T'Khasi, a very ancient word. Below we will attempt to fill in some knowledge gaps and present a condensed history of the planet T'Khasi. In this essay, we will use the word "Vulcan" for their planet because of its widespread familiarity.

The planet Vulcan is located in the same spiral arm of the Milky Way as the Earth. The Vulcan's solar system is currently comprised of three planets, the largest of which is their homeworld. Many centuries ago, Vulcan had several small iron-nickel moons. At an early stage in Vulcan spaceflight, these moons were mined as a source of ore, since the planet itself was poor in ferrous materials. The lack of moons is more than compensated by Vulcan's sister planet, T'Khut. Vulcan (T'Khasi) and T'Khut are unique in that they revolve around a common point in the same orbit. T'Khut dominates the sky and its closeness causes gravitational stress on the planet Vulcan. This is a major factor in planetary tectonic activity and maintains active vulcanism.

Vulcan is somewhat older than the Earth, geologically speaking. Scientists have estimated that Vulcan is nearly five hundred million years older. The planet itself evolved quicker than Earth because of the effects in its system. The Vulcans' planet is larger than Earth. The gravity is noticeably higher. There is little seasonal variation on the planet Vulcan due to an almost circular orbit around its hot sun and the very slight tilt on its axis. Vulcan orbits its sun at about the same distance as Mars in the Sol system.

Like all planets so far discovered that gave birth to carbon-based life, Vulcan had a watery past. The oceans of the planet probably covered a substantial part of the surface at their maximum, although it is unknown to what extent because vulcanism on Vulcan has obliterated most traces of an oceanic past. The evolutionary cycle followed most of the same steps as on Earth. As on most planets with reptilian or mammalian dominant lifeforms, Vulcan had an Age of Great Reptiles. These creatures were similar to the dinosaurs of Earth or the ancestors of the Gorns. Vulcan never did have such a great variety of species because of severity of climate. Because of vulcanism and severe geological upheavals, the fossil record on Vulcan is very thin. There are often only single specimens of an extinct species. The fossil record on Earth is hundreds of times richer. Conditions were always tough and all lifeforms on Vulcan had to be strong and adaptable. During the Oceanic Era there appear to have been four main continental regions. The evidence of this can be seen in the massive high plateau regions that remain to this day.

The Great Reptiles died out during a period of intense solar flares in the distant past and smaller animals took over. Again, there was never a great variety of creatures. The earliest identified ancestor of the Vulcans was a creature called the "cat-ape" by some Federation paleontologists. Modern Vulcans still possess some qualities of a quasi-feline predator past; many have noticed the strength, reflexes and fluid movement. Vulcan physiology and psychology is covered in the essays of others. There had long been some conjecture that Vulcan ancestors may have been seeded on Vulcan by one of the ancient great "Preserver" races of the

galaxy. Possible proof of this lies with the existence of a number of other vulcanoid races, including the Rigellians. The Romulans were determined years ago to have been descendants of emigrants from Vulcan thought lost in space centuries before. The argument for seeding is weakened, though, by the fact that Vulcans are genetically related to the biological life of their planet. More and more Federation scientists believe now that Vulcan may have been the prehistoric origin of vulcanoid life seeded elsewhere.

Early vulcanoid life evolved on the vast grasslands that once covered the low plains of the planet. By the time of the rise of true intelligence in these Vulcan ancestors, no true forests or jungles still existed. Only in prehistoric times did large plant-forms thrive. Because of their evolution in a savannah environment, the Vulcan ears and eyes developed into quite sensitive instruments to facilitate hunting and survival in tall grasses. Prehistoric Vulcans mostly kept away from the mountainous, volcanic areas of their planet, due to the dangerous conditions caused by continual eruptions.

The Vulcans learned to use fire at an early stage. This is no real surprise on a volcanic planet. The people were constantly exposed to fire and lava. Violent electrical storms also started huge range fires in the grasslands. The planet itself was very rich in many minerals and metals. The Stone Age of Vulcan was relatively short. Metal tools and weapons came about quite soon because of easy access to high-grade ores. Unfortunately, usable iron ore was quite rare and there was never a prehistoric Iron Age. Wars over territory containing iron ore were continuous. Copper is very common on Vulcan, though. The blood chemistry of Vulcan life is based on copper, not iron, hence the green blood that is so famous. A similar thing happened with the Andorians and their cobalt-based blood chemistry. Thus, copper was the basis of Vulcan metallurgy. Also, because of the lack of wood as a building material, dwellings were made of sod or stone. The abundant grasses were used as thatch for roofing.

In historical times, there were no longer any large land animals like elephants or giraffes on Vulcan. Large herds of smaller grazing animals were domesticated, though. Some animals became pets and beasts of burden, while others were eaten. Simple agriculture developed early, but the conditions supported nomadic life much better.

Although there is very little speciation on Vulcan, there are two races of Vulcans -- a light-skinned race that dominated the Northern Hemisphere in prehistoric times and a dark-skinned race from the Southern Hemisphere. Most Vulcans have black hair, which greys with age, but some Vulcans have a recessive gene for a reddish-colored hair. In some rural areas, this reddish hair is common. Though there were often bloody struggles over territory, Vulcan has not been burdened with racial prejudices in historical times. Vulcans often find it very difficult to understand the problems Earth and other worlds have had because of different races.

By the earliest historical times, the oceans had shrunk into a few small seas and large salt lakes. This also prevented the continental isolation due to large oceans that happened on Earth. Although there were hundreds of different dialects in early times, the number of languages quickly declined as military conquests consolidated vast territories of the planet. One of the largest language groups originated on the Plains of Gol and is somewhat analogous to the Indo-European root language on Earth. One of the popular terms for this language is Ancient Golic Vulcan, although it is unknown what the speakers called it. Only scraps of it remain, mostly on the ancient pictographic inscriptions found throughout the Gol region. A standard language for ceremonial, religious and literary purposes is directly descended from Ancient Golic Vulcan and has survived for thousands of years. Usually called "Old High Vulcan" by non-Vulcans, it is called Traditional Golic Vulcan by the Vulcans themselves. This is the language of Surak and the Masters of Gol. The ordinary people of the Gol region and its surroundings speak what is called "Modern Golic Vulcan". Several other important languages exist, including the official "Modern Vulcan" used by today's Vulcans for most communications needs. Its history is unclear and it has been suggested that it was an invented language, developed many centuries ago after Vulcan was united. It may have been considered inappropriate to use Traditional Golic Vulcan for this purpose. Other etymologists consider this "Modern Vulcan" to be a descendant of the same root language that gave rise to Romulan. Few off-worlders speak any of the Vulcan languages, some of which are considered complicated or hard to pronounce.

As civilization developed, fortified urban centers spread across the face of Vulcan. Unfortunately, due to the drying up of the climate, resources were always limited. Most of the Vulcans at this time remained nomadic, somewhat like the tribes of the Sahara desert on Earth several hundred years ago. Wars for water, natural resources and territory were common. The now common desert conditions slowed the development of Vulcan civilization and a long stagnant period began. The hot, dry conditions caused the Vulcans to become strong and ruthless to survive. The Vulcans had always been merciless and fierce warriors, and raids on neighboring lands were common. Early forms of trade, though, still existed. No one government or philosophy ever dominated the planet until the time of Surak. The length of time of pre-Surak civilization is certainly in the hundreds of thousands of years. This is much longer than the corresponding period on Earth or most other major planets. Archeologists are still digging for information.

Industrialization on Vulcan happened practically overnight as a result of the military need for improved weapons. Where on Earth it took about 200 years to go from steam engines to common spaceflight, it took the Vulcans approximately 50 years. The people of Vulcan quickly explored their solar system, mining the moons and asteroids, and colonized their sister planet. Vulcan at this time was somewhat like the early 21st Century of Earth. Because of their inner violent natures, though, there occurred a long period of horrific planetary wars, including nuclear and biological weapons. The population of Vulcan dropped rapidly. The Vulcans were near the edge of extinction due to unchecked warfare. Without a change, the planet would become lifeless. Earth at this time was just beginning the Bronze Age.

Through most of Vulcan's history the people had lived in matriarchal societies. The women were political leaders, teachers, administrators and religious leaders. The women arranged marriages and controlled the numbers of children born. More males were born than females. Because of the limited number of females, there was often a bonding challenge and males fought for the right to mate. By fighting to the death, only the strong and cunning lived to have children -- survival of the fittest at its most serious. This was the beginning of genetic planning. The clan matriarchs oversaw most facets of life. Male Vulcans did rise to very high positions of authority, but this was rare. The males were usually the hunters, the laborers, the priests and the soldiers. Young males that showed high intelligence, though, were always separated from normal males and given special education not available to most males. These Vulcan males became scientists and inventors, as well as philosophers and poets.

## **Surak**

One of these special Vulcan males was named Surak. He is considered the most outstanding Vulcan ever born. He was the turning point in Vulcan's history. The intelligent and inquisitive boy was enrolled in one of the highest ranking schools. He mastered everything he studied. As an adult he saw the violent, emotional conditions on his planet, and turned his back on the family business to study with the masters at Gol. He began developing the philosophy that would totally revolutionize Vulcan. Many stories are told about Surak's deeds. Many of them are apocryphal. Surak is truly larger than life to many Vulcans. Unfortunately, the Vulcans have kept much of Surak's "true" life a secret and until they open up certain sealed documents to off-world beings, only that which they wish us to know will be known.

Surak quietly began to convert those around him to his philosophy of logic and control of emotions. He developed rigorous disciplines. As more and more Vulcans accepted his way, the situation on Vulcan began to change. People discarded their weapons and destructive emotions. One myth is that the Vulcan discards all emotions. This is not true. The emotions remain but under tight control. The key is controlling external display of these emotions. As in all revolutions, groups of Vulcans rose up against Surak's changes. There were many attempts on Surak's life and ultimately he lost his life on a peace mission. Much of the history of this time is a mystery. The point is that Surak, against all odds, succeeded in saving the Vulcan race from its path of self-destruction and forever changed Vulcan society. It is now known that a large group of those who opposed Surak gathered a fleet of spaceships and left Vulcan to find a world of their own. These pilgrims were all thought to have perished while attempting this journey. But some did survive and the Romulans are living proof of this. The Romulans are a living reminder (and embarrassment) of the way many Vulcans were

before Surak.

The exact length of time between Surak and the first contact between Earth and Vulcan is unknown. The Vulcans, embarrassed about their violent, emotional past, have kept a lot of this information secret. Some people actually think that the Vulcans themselves don't know the details and don't want us to be aware of their lost history. This is unusual, since many other races freely admit their violent pasts and lost knowledge due to great wars or great catastrophes. What is known is that the Vulcan race was preserved by logic and control of emotions, even though that did cause a certain amount of stagnation in Vulcan society. Vulcans have changed little over the past two millennia, although their science has advanced quite a bit. Membership in the United Federation of Planets has had little effect on the day-to-day life of the matriarchal, ethnocentric Vulcans. They still go through Kolinahr and Kun-ut Kali-fi, Kahs-wan and Ka-nifur, bonding as children and pon farr every seven years of adult life. The history of the Vulcans is very complex and very interesting. Every year we learn a little more about our enigmatic, intelligent friends. Maybe one of you will unlock some of the mysteries. Until that time . . .

Dif-tor heh smusma.. (Live long and prosper!)

### **Suggested readings:**

"Vulcans I Have Met" by James T. Kirk, Admiral, Starfleet, United Federation of Planets Press, San Francisco, Earth

"Life Among the Vulcans" by Amanda Grayson, wife of Sarek, Vulcan Academy of Sciences, Shi'Kahr, Vulcan

"T'Khasi: A Guide to Vulcan" by T'Lahr and Solak, visiting lecturers, Cornell University Press, New York, Earth

"Vulcan", Encyclopedia Galactica, 5th Edition, Centaurus

"Psthan na'Olozhika," by Sarek, Vulcan Ambassador to the U.F.P., Vulcan Psychology Monthly, Shi'Kahr, Vulcan

## Sciences

### ***Main Science Page***

Nen-Thalu t'Ek-Tal

### **INTRODUCTION**

#### **Ragtaya**

As is well-known throughout the Federation, the Vulcans are especially known for their excellence in the sciences and medicine. Vulcans serve throughout Starfleet most prominently as science officers, engineers and medical doctors, although intelligence analysts and security specialists are becoming common as well. A number of Starfleet science vessels are completely manned by Vulcans. As with most advanced races, the Vulcans have a huge vocabulary of specialized terms for use in the sciences and technical fields. Below you will find a large introduction to a wide range of scientific words and terminology. See also our other science pages.

### ***FIELDS OF STUDY***

#### **Vunailar t'Orenaya**

In nearly all cases, it is easy to determine the Golic Vulcan name for a discipline or field of study in most of the scientific, technical and medical disciplines. In contemporary usage, all of these terms are formed from a descriptive root with "-tal" (meaning "study" or "-ology") suffixed. Here is a selection of examples:

Aerology -- Sov-tal ("air-study")  
 Aerodynamics -- Sov-dvun-tal ("air-motion-study")  
 Aeronautics -- Hash-tal ("flight-study")  
 Agronomy -- Urozh-solek-tal  
 Algology -- Smol-tal ("alga(e)-study")  
 Anatomy -- Vukhut-tal  
 Anesthesiology -- Kashan-ne-tal  
 Angiology -- Vukhut-mev-tal ("body-vessel-study")  
 Anthropology -- Kominsu-tal ("human-study")  
 Archeology -- Veshtsu-tal ("past-person-study")  
 Astrogeology -- S'udish-solektra-tal ("outside-land-study")  
 Astronomy -- Yel-tal ("star-study")  
 Astrophysics -- Stukh-tal ("space-study")  
 Audiology -- Ralash-tal  
 Biochemistry -- Ha-meil-tal ("life-chemical-study")  
 Biology -- Ha-tal  
 Biophysics -- Ha-tor-tal  
 Biostratigraphy -- Ha-tin-tal  
 Botany -- Kastik-tal  
 Cardiology -- Khaf-spol-tal  
 Chemistry -- Meil-tal  
 Climatology -- Ek'nosh-tal  
 Cosmology -- Stukhtra-tal ("universe-study")  
 Cytology -- Nala-tal ("cell-study")  
 Dendrochronology -- Lap-kuv-tal ("tree-ring-study")  
 Dermatology -- Wadi-tal  
 Ecology -- Malat-tal ("nature-study")  
 Epidemiology -- Has-sak-tal  
 Ergonomics -- Zup-dvun-tal ("labor-motion-study")  
 Etymology -- Zhit-vesht-tal ("word-past-study")

Eugenics -- Tash-noshtra-tal ("control-characteristic-study")  
 Exobiology -- S'udish-ha-tal ("outside-life-study")  
 Gastroenterology -- Skaun-ek'ur-tal  
 Genetics -- Tol-tal  
 Geochemistry -- Solektra-meil-tal ("land-chemical-study")  
 Geohydrology -- Ne'rak-masu-tal ("beneath-water-study")  
 Geology -- Solektra-tal  
 Geomorphology -- Solektra-shid-tal ("land-form-study")  
 Geophysics -- Solektra-tor-tal ("land-doing-study")  
 Geriatrics -- Shakhu-tal ("elderly-study")  
 Gerontology -- Shakhuvaya-tal ("aging-study")  
 Glaciology -- Le-suma-tal ("ice-study")  
 Hematology -- Khaf-tal ("blood-study")  
 Hepatology -- Nehasamek-tal ("liver-study")  
 Herpetology -- Ukraluk-tal ("reptile-study")  
 Histochemistry -- Numo-kelek-tal t'nala eh nalatra  
 Histology -- Numo-kelek-tal ("microscopic-structure-study")  
 Hydraulics -- Masu-mish-tal ("water (ie. fluid)-engineering")  
 Hydrodynamics -- Masu-dvun-tal ("water-motion-study")  
 Hydrology -- Masu-tal  
 Hydrometeorology -- Sov-masu-ta ("sky-water-study")  
 Hydrostatics -- Masu-shom-tal ("water-rest-study")  
 Kinesiology -- Vukhut-dvun-tal ("body-motion-study")  
 Limnology -- Slor-masu-tal ("freshwater-study")  
 Linguistics -- Gen-lis-tal  
 Marine biology -- Masutra-ha-tal  
 Meteorology -- Igen-va-tal  
 Microbiology -- Numo-ha-tal  
 Mineralogy -- Ek'tukh-tal  
 Mycology -- Luk-tal ("fungus-study")  
 Neonatology -- Uzh-keshtu-tal ("newborn-study")  
 Nephrology -- Kapol-nafek-tal ("kidney-study")  
 Oceanography -- Masutra-tal  
 Oceanology -- Masutra-mish-tal ("ocean-engineering")  
 Oncology -- Gnal-tal ("tumor-study")  
 Osteology -- Hinek-tal ("bone-study")  
 Nuclear physics -- Galu-tor-tal ("atom-doing-study")  
 Paleoanthropology -- Vesht-komihnsu-tal  
 Paleobotany -- Vesht-kastik-tal  
 Paleoclimatology -- Vesht-ek'nosh-tal  
 Paleoecology -- Vesht-malat-tal  
 Paleography -- Vesht-kitau-tal ("past-writing-study")  
 Paleontology -- Vesht-ha-tal ("past-life-study")  
 Paleozoology -- Vesht-aushfa-tal  
 Palynology -- Tal t'Kas-sa-nei ("study of-pollen")  
 Pathology -- Has-tal ("disease-study")  
 Pedology -- Solek-tal ("soil-study")  
 Petrochemistry -- Kov-meil-tal ("rock-chemical-study")  
 Petrology -- Kov-tal ("rock-study")  
 Pharmacology -- Haseret-tal ("medication-study")  
 Physics -- Tor-tal ("doing-study")  
 Physiology -- Is-lof-tal ("function-study")  
 Phytogeography -- Kastik-sagan-tal ("plant-distribution-study")

Phytopathology -- Kastik-has-tal ("plant-disease-study")  
 Phytosociology -- Kastik-shila-tal  
 Planetology -- Vath-ek'tra-tal ("other-planet-study")  
 Praxeology -- Su-torai-tal ("people-action-study")  
 Proctology -- Pekh-mev-tal  
 Psychiatry -- Kashkau-tal ("mind-study")  
 Psychology -- Klashai-tal ("behavior-study")  
 Seismology -- Solektra-hutaya-tal  
 Selenology -- Aikum-tal ("moon-study")  
 Sociology -- Shila-tal ("community-study")  
 Speleology -- Tauk-tal ("cave-study")  
 Synecology -- Su-malat-tal ("people-nature-study")  
 Tectonics -- Solektra-dvun-tal ("land-motion-study")  
 Toxicology -- Gisam-tal ("poison-study")  
 Urology -- Vazh-ek'ur-tal  
 Vulcanology -- Zul-kunel-tal ("volcano-study")  
 Vulcantology -- Vuhlkansu-tal ("vulcan(s)-study")  
 Xenobiology -- Akan-ha-tal ("alien-life-study")  
 Zoology -- Aushfa-tal

## ***ASTRONOMY & ASTROPHYSICS***

### **Yel-tal heh Stukh-tal**

Because they live in a very dynamic planetary system and achieved spaceflight at an early stage, the Vulcans have an extensive knowledge of astronomy and astrophysics. They have greatly added to the UFP's knowledge of the universe and planetary systems.

### **Some examples of Golic Vulcan vocabulary in these fields:**

Accretion disk -- fito'ov-mathra  
 Albedo -- ha'gel-haulan-tavat  
 Aphelion -- yel-irak-sfek  
 Apogee -- irak-sfek  
 Asteroid -- pi'ek'tra  
 Astronomer -- yel-talsu  
 Astrophysicist -- stukh-talsu  
 Atmosphere -- igen-tukh  
 Azimuth -- ir-zehl-kes  
 Binary star -- dah-yel  
 Bolide -- thorsha-wesh-kov  
 Comet -- zehl-yel  
 Constellation -- yel-nel-dath  
 Corona -- pau  
 Cosmic dust -- stukh-grazhiv  
 Cosmic ray -- stukh-ha'zehl  
 Crater, Impact -- kwul-razh  
 Dark matter -- mu'gel-tukh  
 Earth -- Terra  
 Eclipse -- ek'duv  
 Galaxy -- yel-halek  
 Globe -- ek'tra-dukak  
 Globular cluster -- dukak-yel-travek  
 Horizon -- ir-zehl

Lunar regolith -- aikum-solek  
 Magnetic field -- vunai t'mokev-seshan  
 Meteor -- wesh-kov  
 Meteor shower -- wesh-kov-tevan  
 Meteorite -- igen-kov  
 Moon -- aikum  
 Nebula -- stukh-wan  
 Nova -- thorsha-yel  
 Observatory -- shi'igen-glantaya  
 Open cluster -- tu'a-yel-travek  
 Orbit -- pa-yut  
 Outgassing -- s'pataya  
 Penumbra -- pi'duv  
 Perigee -- be-sfek  
 Perihelion -- yel-be-sfek  
 Planet -- ek'tra  
 Planetarium -- shi'yel-gluvekh  
 Pulsar -- spol-yel  
 Satellite, Artificial -- torv-aikum  
 Satellite, Natural -- malat-aikum  
 Solar flare -- yel-pohshaya  
 Solar prominence -- yel-sposhan  
 Solar system -- yel-pi'maat  
 Space, Outer -- stukh  
 Star -- yel  
 Stellar cartography -- besaya t'yellar  
 Supernova -- khrash-yel  
 Sun -- yel  
 Sunspot -- yel-ulidar  
 Telescope -- irak-zan-vel  
 Umbra -- duv  
 Vulcan -- T'Khasi  
 World -- ek'tra  
 Wormhole -- stukh-wak-mev  
 Zenith -- shi'dan-abru

## ***CHEMISTRY & PHYSICS***

### **Meil-tal heh Tor-tal**

In the time before Surak, the names for elements and chemicals had no regularity in Golic Vulcan. Later, scientists, taking a lead from the teachings of Surak and his successors, decided to completely revamp the way chemistry handled its specialized language. All elements on the periodic chart now end with the suffix "-tukh", meaning "material" or "substance", and the root word is almost always descriptive of the appearance or property of the element. Examples are *masu-tukh* (lit. water-stuff) for hydrogen, since hydrogen makes up 2/3 of the basic water molecule; and *ras-tukh* (lit. heavy-stuff) for lead because of its obvious density. In OHV scientific usage, the name of "chemical modifiers" (oxide or chloride, for example) are derived from the major element name by dropping the "-tukh" and directly suffixing "u".

The way the Vulcans write the names for chemical compounds is often considered much clearer and less ambiguous than the way they are written in FSE. It is usually possible to derive the chemical formula from the chemical name, whereas this is not the case in FSE. In most cases, Golic Vulcan chemical names contain numbers showing the atomic structure of a molecule, making learning chemical structure somewhat easier for Vulcans. Chemical names follow a pattern similar to obsolete chemical compound name usage in Earth



languages, such as "Sulfate of Lead" or "Chloride of Sodium". This rule follows for nearly all compounds, but one exception is with chemicals like acids, where simple acid names can be suffixed "-sash", whereas more complicated names follow the above form.

**The following are some miscellaneous chemical names:**

Arsenic trioxide -- reh-eshu t'dah-gis-tukh (lit. trioxide of di-arsenic)  
 Arsenic trisulfide -- reh-vlau'u t'dah-gis-tukh (lit. trisulfide of di-arsenic)  
 Barium sulfate -- vlau-keh-eshu t'zon-tukh (sulfate of barium)  
 Cadmium sulfide -- vlau'u t'stal-tukh (lit. sulfide of cadmium)  
 Calcium chloride -- lafu t'hinek-tukh (lit. chloride of calcium)  
 Carbon dioxide -- dah-eshu t'nol-tukh (lit. dioxide of carbon)  
 Carbon disulfide -- dah-vlau'u t'nol-tukh (lit. disulfide of carbon)  
 Carbon monoxide -- eshu t'nol-tukh (lit. oxide of carbon)  
 Carbon tetrachloride -- keh-lafu t'nol-tukh (lit. tetrachloride of carbon)  
 Cobalt chloride -- dah-lafu t'pla-tukh (lit. dichloride of cobalt)  
 Copper sulfate -- vlau-keh-eshu t'khaf-tukh (lit. sulfate of copper)  
 Cuprite (copper ore) -- eshu t'dah-khaf-tukh (lit. oxide of di-copper)  
 Ferric oxide -- reh-eshu t'dah-shek-tukh (lit. trioxide of di-iron)  
 Hydrogen peroxide -- dah-eshu t'dah-masu-tukh (lit. dioxide of dihydrogen)  
 Hydrogen sulfide -- vlau'u t'dah-masu-tukh (lit. sulfide of dihydrogen)  
 Magnesium oxide -- eshu t'wal-tukh (lit. oxide of magnesium)  
 Magnesium sulfate -- vlau-keh-eshu t'wal-tukh (lit. sulfate of magnesium)  
 Nitric oxide -- eshu t'sov-tukh (lit. oxide of nitrogen)  
 Potassium chloride -- lafu t'spoh-tukh (lit. chloride of potassium)  
 Potassium nitrate -- sov-reh-eshu t'spoh-tukh (lit. nitrate of potassium)  
 Potassium sulfate -- vlau-keh-eshu t'spoh-tukh (lit. sulfate of potassium)  
 Pyrite -- dah-vlau'u t'shek-tukh (lit. disulfide of iron)  
 Sodium bicarbonate -- sovnol-reh-eshu t'alem-tukh (lit. hydrocarbon-oxide of sodium)  
 Sodium chloride (salt) -- lafu t'alem-tukh (lit. chloride of sodium)  
 Sodium nitrate -- sov-reh-eshu t'alem-tukh (lit. nitrate of sodium)  
 Sodium sulfate -- vlau-keh-eshu t'alem-tukh (lit. sulfate of sodium)  
 Sulfur dioxide -- dah-eshu t'vlau-tukh (lit. dioxide of sulfur)  
 Titanium dioxide -- dah-eshu t'vau-tukh (lit. dioxide of titanium)  
 Uranium hexafluoride -- sheh-hoshu t'shu-tukh (lit. hexafluoride of uranium)  
 Zinc oxide -- eshu t'tsau-tukh (lit. oxide of zinc)

Acetic acid -- sfith-masu-sash (lit. vinegar acid)  
 Ascorbic acid -- nen-savas-sash (lit. basic fruit acid)  
 Boric acid -- sash t'rak-reh-eshu (lit. acid of boron trioxide)  
 Carbonic acid -- sash t'masu-reh-eshu (lit. acid of carbonate)  
 Chromic acid -- sash t'salu-keh-eshu (lit. acid of chromate)  
 Hydrobromic acid -- masu-raku-sash (lit. hydro-bromide acid)  
 Hydrochloric acid -- masu-lafu-sash (lit. hydro-chloride acid)  
 Nitric acid -- sash t'sov-reh-eshu (lit. acid of nitrate)  
 Phosphoric acid -- sash t'yon-keh-eshu (lit. acid of phosphoro-tetroxide)  
 Phosphorous acid -- sash t'yon-reh-eshu (lit. acid of phosphoro-trioxide)  
 Sulfuric acid -- sash t'vlau-keh-eshu (lit. acid of sulfate)  
 Sulfurous acid -- sash t'vlau-reh-eshu (lit. acid of sulfite)

**Examples of Golic Vulcan chemistry and physics terms:**

Anhydrous -- fam-masupik

Alpha particle -- sih-pi'gal  
Atom -- galu  
Baryon -- pu'gal  
Beta particle -- tih-pi'gal  
Bioluminescence -- ha-ha'tanaya  
Calcareous -- gavik  
Catalyst -- torai-tukh  
Caustic -- yontau-meil  
Chroniton -- wak'gal  
Compound (chemistry) -- meilaktra  
Delta radiation -- kih-saya  
Density -- ihn'es  
Deuterium -- dah-masu-tukh  
Dilithium -- dah-pim-tukh  
Electron -- u'gal  
Emulsion -- dah-masu  
Emulsifier -- dah-mashek  
Emulsible -- dah-mashauk  
Filtration -- kapol-toraya  
Fission, Atomic -- galu-dahshaya  
Fluorescence -- sau-ha'tanaya  
Fusion, Atomic -- galu-kaunshaya  
Gamma radiation -- pih-saya  
Graviton -- sesh'gal  
Half-life -- ulef-ha'kiv  
Hypervelocity impact -- kwul t'dan-pid-threshan  
Immiscible -- rirish-yehat  
Instability -- rifihet'es  
Ion -- falun-krus  
Ionization -- falun-shetaya  
Isotope -- galu-dahsu  
Luminescence -- dakh-ha'tanaya  
Magnetic -- seshupik  
Magnetic field -- seshan-vunai  
Magnetic field intensity -- karik'es t'seshan-vunai  
Magnetometer -- seshan-thonek  
Methane -- keh-masunol-tukh  
Methanol -- eshu t'keh-masunol-tukh  
Methyl -- reh-masunol-tukh  
Methylamine -- sovu t'kau-masunol-tukh  
Methylene -- dah-masunol-tukh  
Miscible -- vi'rish-yehat  
Molecule -- galutravek  
Negative charge -- u'rak-falun  
Neutrino -- ska'gal  
Neutron -- ta'gal  
Nucleus (atomic) -- galu-svitan  
Osmosis -- k'fai-sanek  
Permeable -- sanek-yehat  
Petroleum -- ek'elmin  
Phosphorescence -- haf-ha'tanaya  
Piezoelectric -- khush-raf  
Piezoelectric effect -- dau t'khush-raf-tepul

Piezoelectricity -- khush-raf-tepul  
 Polaron -- na'gal  
 Positive charge -- a'rak-falun  
 Positron -- a'gal  
 Radiation -- galu-saya  
 Radioactive -- galu-sayuk  
 Radioactive decay -- galu-sayuk nehaya  
 Radioactivity -- galu-saya'es  
 Radioisotope -- galu-saya-dahsu  
 Salinity -- alemik'es  
 Saturation -- vi-mashaya  
 Stability -- fihet'es  
 X-ray -- vak-zehl

### **TABLE OF ELEMENTS**

#### **Besan t'Meilaklar**

Strangely enough, the Vulcans never devised a periodic table of elements like that in use on Earth. They tended to group the elements by properties, such as gas, liquid or solid, or later in a convoluted system of interlocking tables. The Vulcans who made first contact with humans, after Zefrem Cochrane's first warp flight, were impressed with the human organization of elements into a periodic chart and it was adopted by most of the members of the Federation after its formation, except the Andorians, of course, who had independently devised an almost identical periodic chart. As mentioned previously, most element names are descriptive of some property of that element, although some of the later discoveries and artificially produced elements are named in honor of people and places, just as was the case on most worlds. The Transfermium Elements elements are simply numbered.

For historical accuracy and interest, we list in the chart below the elements in the atomic number order from the work of the great Vulcan chemist and physicist Saran t'Nelek, along with the abbreviations (atomic symbols) he established:

<b>OHV Name</b>	<b>OHV Symbol</b>	<b>Atomic #</b>	<b>FSE Name</b>
Masu-tukh	Ma	1	Hydrogen
Tahal-tukh	T	2	Helium
Pim-tukh	P	3	Lithium
Dzhan-tukh	Dzh	4	Beryllium
Rak-tukh	R	5	Boron
Nol-tukh	N	6	Carbon
Sov-tukh	Sv	7	Nitrogen
Esh-tukh	E	8	Oxygen
Hosh-tukh	H	9	Fluorine
Min-tukh	Mi	10	Neon
Alem-tukh	A	11	Sodium
Wal-tukh	Wl	12	Magnesium
Wan-tukh	Wn	13	Aluminum
Mazhiv-tukh	Mzh	14	Silicon

Yon-tukh	V	15	Phoenhorie
Vlau-tukh	VI	16	Sulfur
Laf-tukh	L	17	Chlorine
Im-tukh	I	18	Argon
Spoh-tukh	Sp	19	Potassium
Hinek-tukh	Hk	20	Calcium
Sak-tukh	Sk	21	Scandium
Vau-tukh	V	22	Titanium
Kaul-tukh	KI	23	Vanadium
Slau-tukh	SI	24	Chromium
Shel-tukh	ShI	25	Manganese
Shek-tukh	Shk	26	Iron
Pla-tukh	PI	27	Cobalt
Orn-tukh	Or	28	Nickel
Khaf-tukh	Kh	29	Copper
Tsau-tukh	Ts	30	Zinc
Bral-tukh	Br	31	Gallium
Tovek-tukh	Tv	32	Germanium
Gis-tukh	Gi	33	Arsenic
Volak-tukh	Vo	34	Selenium
Fnek-tukh	Fn	35	Bromine
L'langon-tukh	LI	36	Krypton
Gol-tukh	Go	37	Rubidium
Psal-tukh	Ps	38	Strontium
Arlanga-tukh	Ar	39	Yttrium
T'lai-tukh	TI	40	Zirconium
Lek-tukh	Lk	41	Niobium
Bulom-tukh	Bu	42	Molybdenum
Saran-tukh	Sr	43	Technicium
Soral-tukh	So	44	Ruthenium
Seleya-tukh	Se	45	Rhodium
Krak-tukh	Kk	46	Palladium
Haul-tukh	HI	47	Silver
Stal-tukh	St	48	Cadmium
Nuhsh-tukh	Nu	49	Indium
Zhai-tukh	Zh	50	Tin
Kra-tukh	Kr	51	Antimony
Vnel-tukh	Vn	52	Tellurium

Nach-tukh	Nch	Ɔ	Todine
Ritsuri-tukh	Ri	54	Xenon
Zhaimasu-tukh	Zm	55	Cesium
Zon-tukh	Z	56	Barium
Vrodak-tukh	Vr	57	Lanthanum
Pran-tukh	Pr	58	Cerium
Breth-tukh	Bth	59	Praseodymium
Dar-tukh	D	60	Neodymium
Thu-tukh	Th	61	Promethium
Bali-tukh	Ba	62	Samarium
Shanai-tukh	Shn	63	Europium
Tuvar-tukh	Tu	64	Gadolinium
Valsh-tukh	Va	65	Terbium
Khreit-tukh	Khr	66	Dysprosium
Te'Rikh-tukh	Tr	67	Holmium
Bal-tukh	B	68	Erbium
Irhin-tukh	Ir	69	Thulium
Sasal-tukh	Ss	70	Ytterbium
Kern-tukh	Ke	71	Lutetium
Dzhanya'an-tukh	Dn	72	Hafnium
T'Khut-tukh	Tkh	73	Tantalum
Ler-tukh	Lr	74	Tungsten
Ahahr-tukh	Ah	75	Rhenium
Um-tukh	Um	76	Osmium
Ahl-tukh	Al	77	Iridium
Taluhk-tukh	Ta	78	Platinum
Kin-tukh	Kn	79	Gold
Masumok-tukh	Mm	80	Mercury
Yad-tukh	Ya	81	Thallium
Ras-tukh	Rs	82	Lead
Grok-tukh	Gr	83	Bismuth
Yush-tukh	Yu	84	Polonium
Dvor-tukh	Dv	85	Astatine
Mozh-tukh	Mo	86	Radon
Uzh-tukh	Uzh	87	Francium
Stau-tukh	Sa	88	Radium
R'dahn-tukh	Rd	89	Actinium
Bogush-tukh	Bo	90	Thorium

Farak-tukh	F	Q1	Protactinium
Shu-tukh	Shu	92	Uranium
Surak-tukh	Su	93	Neptunium
Isbad-tukh	Is	94	Plutonium
Wuh-tukh	Wu	95	Americium
Dah-tukh	Da	96	Curium
Reh-tukh	Re	97	Berkelium
Keh-tukh	K	98	Californium
Kau-tukh	Ka	99	Einsteinium
Sheh-tukh	Sh	100	Fermium
Steh-tukh	S	101	Mendelevium
Oh-tukh	O	102	Nobelium
Nau-tukh	Na	103	Lawrencium
Leh-tukh	Lt	104	Rutherfordium
Leh-wuh-tukh	Lw	105	Dubnium
Leh-dah-tukh	Ld	106	Seaborgium
Leh-reh-tukh	Lh	107	Bohrium
Leh-keh-tukh	Lk	108	Hassium
Leh-kau-tukh	La	109	Meitnerium

## Earth Sciences Page

### Thalu t'Ek'Tra-Ek'Tallar

#### ***GEOLOGY, GEOPHYSICS & MINERALOGY***

#### **Solektra-tal - Solektra-tor-tal heh Ek'tukh-tal**

The planet Vulcan (T'Khasi) is very dynamic and geologically diverse, especially in features related to vulcanism, deserts and wind erosion. Because it is an arid planet, some terms relating to water, certain types of erosion, features caused by conditions that don't exist on the homeworld, etc., were created by geologists and/or historians to describe ancient or prehistoric features. Later exposure to watery Class M planets also caused great expansion of this terminology.

#### **Examples of Golic Vulcan vocabulary in these fields:**

Ablation -- falkrashaya  
 Abrasion -- grashaya  
 Accretion -- fito'ovaya  
 Active fault -- torupik dvun-zehl  
 Active volcano -- torupik zul-kunel  
 Adit -- ek'tukh-razh  
 Aftershock -- pos-hutaya  
 Alluvial fan -- ne-tin-sovek  
 Alluvial placer -- ek'tukh-titaya t'ne-tin  
 Alluvial plain -- ne-tin-eiktra  
 Alluvium -- ne-tin  
 Anticline -- abru-vul  
 Aquifer -- masu-kovtra  
 Arenaceous -- mazhiv-lef'es-kahk  
 Argillaceous -- pid-krizhivik  
 Arkose -- tashuhl-mazhiv-kov  
 Arroyo -- pi'spathel  
 Asbestos -- slah-kov  
 Ash flow -- sposhan-vitush-yumaya  
 Astrobleme -- skrash-kwul-razh  
 Avalanche (rock only) -- kov-skish  
 Avalanche (snow with or without rock) -- izh-skish  
 Barchan -- dah-stonn-sef  
 Basalt -- ushek  
 Batholith -- neik-zul-kov  
 Bauxite -- wan-tukh-van  
 Beach placer -- ek'tukh-titaya t'shahov  
 Bedrock -- nen-kov  
 Bench -- pi'nef  
 Bioclastic rock -- ha-zarahk-kov  
 Boulder -- suk'kov  
 Breccia -- zarahk-teret-kov  
 Butte (non-volcanic) -- kunel  
 Butte (volcanic) -- zul-kunel  
 Caldera -- ne'hal-zul-razh  
 Canyon -- spathel  
 Cave -- tauk

Cavern -- suk'tauk  
Chalk -- gav  
Chert -- kohv-mazhiv-kov  
Cinder cone -- vitush-kunel  
Cirque -- ku-li-razh  
Clay -- krizhiv  
Cliff -- menal  
Coal -- kastik-kov  
Confluence -- teret-yumaya  
Conglomerate -- teret-kov  
Consanguinity -- teret-zulan'es  
Consolidation -- lerashan  
Continent -- ek'kovtra  
Continental drift -- ek'kovtra-dvun  
Corundum -- yon-khush  
Crack -- treshaya  
Crater, Impact -- kwul-razh  
Crater, Volcanic -- zul-razh  
Crest -- dan-pid-sfek  
Crevasse -- glu-treshaya  
Crevice -- treshaya  
Crust -- si-kov-shal  
Crystal -- khush  
Crystalline -- khushik  
Crystallization -- khushaya  
Debris -- guhsh(-tukh)  
Deposit -- titaya  
Desert -- eshikh  
Detritus -- thal-tukh  
Diamond -- lerash-khush  
Dike (lava) -- zul-mev  
Displacement -- (solektra-)sa'dvun  
Dolomite -- desh-tukh  
Dormant volcano -- yukupik zul-kunel  
Dune -- sef  
Dune complex -- sef-travek  
Effluent -- s'yumuk  
Emerald -- yar-khush  
Eruption (volcanic) -- zul-sposhan  
Fault -- dvun-zehl  
Feldspar -- tashuhl  
Flint -- kil-tukh  
Fossil -- vesht-ha-kov  
Freshwater -- slor-masu  
Fumarole -- fal-pa-razh  
Galena -- ras-kov  
Geosuture -- kovtra-ragel-shal  
Geyser -- masu-pohshuk  
Glacier -- dvun-le-sumatra  
Gneiss -- thrakh  
Graben -- dvun-zehl-treshaya  
Granite -- zasuhl  
Graphite -- lerash-nol-tukh



Gravel -- krus-kov  
 Gravimeter -- ne-seshan-thonek  
 Gravity -- ne-seshan  
 Groundwater -- ne'rak-masu  
 Guyot -- masutra-pa'ash-kunel  
 Gypsum -- aukh  
 Halite -- alem-kov  
 Hammada -- salan-fleit-skonn  
 Hardness -- lerash'es  
 Hiatus -- tin-svi'shaya  
 High plain -- pid-eiktra  
 Highland(s) -- pid-shal  
 Hill -- kunel  
 Horizontal fault -- yutik dvun-zehl  
 Horst -- dvun-zehl-shen  
 Hydraulic action -- dvun-masu-torai  
 Hydroclastic rock -- masu-torai-kov  
 Hydrolith -- s'masu-kov  
 Hydrologic cycle -- masu-da-nel  
 Hydrothermal deposit -- fal-masu-titaya  
 Igneous rock -- zul-kov  
 In situ -- svi'rak  
 Inclinator -- vul-thonek  
 Influent -- vi'yumuk  
 Inselberg -- sa'awek-koval  
 Intermittent stream -- rilik pilash  
 Intrusion -- vi'kwitaya  
 Island -- vikuvtra  
 Isthmus -- solektra-naf  
 Jade -- yar-kov  
 Karst plain -- bogosh-eiktra  
 Knoll -- pi'kunel  
 Laccolith -- patam-zul-koval  
 Lahar -- fal-vrel-yumaya  
 Lake -- suk'muzh  
 Landslide (rock and soil) -- solek-skish  
 Landslide (rock only) -- kov-skish  
 Lava -- (si-)zul  
 Lava flow -- zul-yumaya  
 Lava lake -- zul-muzh  
 Lava tube -- zul-ur  
 Limestone -- vom-tukh  
 Lithification -- kovtaya  
 Lithosphere -- kov-ek'shal  
 Littoral -- mashen-shahov-shal  
 Loam -- makrizhiv  
 Loess -- salan-sal-titaya  
 Magma -- (tvi-)zul  
 Magma chamber -- zul-tvi-shal  
 Magnet -- seshan-kov  
 Magnetic -- seshupik  
 Magnetic anomaly -- seshupik flekh'es  
 Magnetic field -- seshan-vunai

Magnetite -- seshan-tukh  
 Magnetometer -- seshan-thonek  
 Mantle -- tvi-kovtra  
 Marl -- vom-krizhiv  
 Mesa -- pa'ash-fiktra  
 Metal -- mokev  
 Metamorphic rock -- rubah-kov  
 Mica -- timazh-kov  
 Microseism -- ri-solektra-hutaya  
 Mineral -- ek'tukh  
 Mogote -- vom-kunel  
 Monadnock -- haf-kunel  
 Moraine -- kov-guhsh s'dvun-le-suma  
 Mountain (non-volcanic) -- suk'kunel  
 Mountain (volcanic) -- shi'yon (traditional), zul-kunel (geologic)  
 Mountain chain -- kunel-maat  
 Mountain range -- kunel-zehl  
 Mountain system -- kunel-travek  
 Mud -- vrel  
 Mud flat -- vrel-eiktra  
 Mudflow -- vrel-yumaya  
 Mudstone -- vrel-kov  
 Nappe -- kov-thalv  
 Nematath -- zul-kunel-yut  
 Nodule -- kov-dukal  
 Nuée ardente -- zul-kunel-wan  
 Oasis -- shi'masu  
 Obsidian -- zul-makh  
 Oblique-slip fault -- vul-dvun-zehl  
 Ocean -- masutra  
 Organic rock -- ha-guhsh-kov  
 Orogeny -- kunel-storaya  
 Outcrop -- nodahb  
 Outgassing -- s'pataya  
 Palisade -- masu-menal  
 Pan -- lerakhovau-solek-tin  
 Parent material -- tveshu-tukh  
 Pebble -- pi'kov  
 Pedogenesis -- solek-storaya  
 Peneplain -- nen-eiktra  
 Peneplanation -- nen-eiktra-skrashaya  
 Permeable -- sanek-yehat  
 Permineralization -- kovtaya  
 Permissive intrusion -- vath-zul-vi'kwitaya  
 Petrification -- kovtaya  
 Petrified -- kovtulik  
 Petrogenesis -- kov-storaya  
 Petroglyph -- kov-kitaya  
 Petroleum -- ek'elmin  
 Phacolith -- zul-vulaya-koval  
 Phreatic cycle -- da-nel t'masu-tin  
 Phreatic water -- ne'rak-masu  
 Phytolith -- kastik-guhsh-kov

Piedmont alluvial plain -- ne-tin-eiktra t'kunel-nen  
Piedmont glacier -- dvun-le-sumatra t'kunel-nen  
Piedmont terrace -- nef t'kunel-nen  
Piezoelectric effect -- dau t'khush-raf-tepul  
Pinch-out -- tin-spoh  
Pingo -- le-suma-kunel  
Pinnacle -- kov-suk'fek  
Pitchblende -- nesh-shu-kov  
Placer -- ek'tukh-titaya  
Plain -- eiktra  
Planation -- eiktra-skrashaya  
Plate -- kovtra  
Plate boundary -- ragel-zehl t'kovtralar  
Plateau -- pasutra  
Playa -- eshikh-eiktra  
Playa lake -- eshikh-suk'muzh  
Pluton -- glu-zul-koval  
Pond -- muzh  
Porphyry -- khush-zul-kov  
Primary magma -- glu-zul  
Primary mineral -- wuh'rak-ek'tukh  
Puddle -- pi'muzh  
Pumice -- markau-zul-kov  
Pyroclast -- thorshau-zul-krus  
Pyroclastic flow -- sposhan-vitush-yumaya  
Pyroclastic material -- thorshau-zul-tukh  
Pyroclastic rock -- thorshau-zul-kov  
Pyrogenesis -- zul-storaya  
Quartz -- kohv-tukh  
Quicksand -- ne-hal-mazhiv  
Radioactive -- galu-sayuk  
Recession -- s'trashan  
Regolith -- nen-kov-guhsh  
Ridge -- kov-zehl  
Rift valley -- kovtra-ku-li  
River -- pilash  
Rock -- kov  
Rock mass -- koval  
Rock pedestal -- patam-koval  
Ruby -- yon-ek'zer  
Sabkha -- alemtra  
Salt lake -- alem-suk'muzh  
Sand -- mazhiv  
Sandstone -- mazhiv-kov  
Sapphire -- pla-khush  
Savannah -- yartra  
Scree -- kov-guhsh  
Scoria -- nala-zul-kov  
Seamount -- masutra-kunel  
Secondary mineral -- dah'rak-ek'tukh  
Sediment -- ne'ti-tukh  
Sedimentary rock -- ne'ti-kov  
Seismograph -- solektra-hutaya-besan

Seismometer -- solektra-hutaya-thonek  
 Shale -- tin-kov  
 Shoal -- ne'ti-hoknaya  
 Shore -- gef  
 Shoreline -- gef-zehl  
 Sill -- shal-zul-kov  
 Silt -- kitek  
 Slate -- kitau-kov  
 Soil -- solek  
 Soil horizon -- ragel-zehl t'solek  
 Soil profile -- solek-ek'tin  
 Sounding sand -- ralash-mazhiv  
 Speleothem -- tauk-titaya  
 Stalactite -- ne'to'ovaya  
 Stalagmite -- abru'to'ovaya  
 Steppe -- psethtra  
 Stone -- kov  
 Strait -- masu-naf  
 Stratification -- (kov-)tintaya  
 Stratum -- kov-tin  
 Striation -- zehl-ulidar  
 Subduction -- kovtra-ne-dvun  
 Summit -- dan-pid-sfek  
 Syncline -- ne-vul  
 Tablemount -- masutra-pa'ash-kunel  
 Talus -- menal-guhsh(-tukh)  
 Talus-creep -- menal-guhsh-dvun  
 Tar -- leralmin (old contraction of "lerash-elmin")  
 Tar pit -- leralmin-razh  
 Tektite -- makh-vihk  
 Tephra -- thorshau-zul-tukh  
 Terrace -- nef  
 Texture -- lef'es  
 Topsoil -- skonn-solek  
 Tributary -- yemek  
 Tuff -- vitush-kov  
 Tundra -- samek-psethtra  
 Unaka -- suk'haf-kunel  
 Uraninite -- shu-kov  
 Vertical fault -- abru'lik dvun-zehl  
 Valley -- ku-li  
 Volcanic ash -- sposhan-vitush  
 Volcanic bomb -- sposhan-vihk  
 Volcanic chain -- zul-kunel-zehl  
 Volcanic cloud -- sposhan-wan  
 Volcanic crater -- zul-razh  
 Volcanic ejecta -- thorshau-zul-tukh  
 Volcanic eruption -- zul-kunel-sposhan  
 Volcanic glass -- zul-makh  
 Volcanic sand -- zul-mazhiv  
 Volcanic vent -- zul-ru'lut  
 Volcano -- shi'yon (traditional), zul-kunel (geologic)  
 Vug -- kov-razh

Water table -- masu-tin  
 Weathering -- igen-vashan  
 Xenolith -- vi'kwitau-kov  
 Yardang -- salan-kov-zehl

## ***METEOROLOGY & CLIMATOLOGY***

### **Igen-va-tal heh Ek'nosh-tal**

The planet Vulcan is a very arid planet with a relatively thin atmosphere and very little atmospheric moisture. Millions of years ago, the planet had much more oxygen and water in its atmosphere, and surface water was more common. As the planet dried out, the climate has stabilized into a fairly uniform temperature range with little seasonal variation. Although the weather of Vulcan is not nearly as diverse as that of other planets, it is still possible to experience some precipitation, violent wind and sand storms, and electrical activity. Since becoming a highly technical race, the Vulcans no longer have to worry about the scarce natural water resources which caused more than one catastrophic war in their past. Water is freely available now through atmospheric engineering, chemical manufacture or replication.

### **Examples of Golic Vulcan vocabulary in these fields:**

Absolute humidity -- ek'esik masu'es  
 Acid rain -- sash-sov-masu  
 Adiabatic -- ri-falek'es-rubahk  
 Adiabatic lapse rate -- sov-shen-tav ri-falek'es-rubahk  
 Advection -- sov-abru'lik-dvun  
 Air mass -- sovtra  
 Airflow -- sov-yumaya  
 Altitude -- sov-pidek  
 Altocumulus (cloud) -- pid-tra-wan  
 Altostratus (cloud) -- pid-tin-wan  
 Anabatic -- abru-dvunik  
 Anticyclone -- vath-sov-dan  
 Atmosphere -- igen-tukh  
 Atmospheric motion -- sov-dvun  
 Atmospheric pressure -- sov-ne'hish  
 Atmospheric water -- sov-masu-nakh  
 Aurora -- igen-gellar  
 Barometer -- sov-ne'hish-thonek  
 Blizzard -- izh-sahriv  
 Breeze -- pi'salan  
 Chinook (wind) -- lamekh-suk'kunel-salan  
 Circulation -- (sov-)da-kuvaya  
 Cirrocumulus (cloud) -- tra-tcha-wan  
 Cirrostratus (cloud) -- tin-tcha-wan  
 Cirrus (cloud) -- tcha-wan  
 Climate -- ek'nosh  
 Climatic change -- ek'nosh-rubah  
 Climatic trend -- ek'nosh-venek  
 Cloud -- wan  
 Cloud bank -- wantra  
 Cloud cover -- wan-wein  
 Cold front -- samek-praduk  
 Condensation -- sa-sov-saya  
 Condensation nucleus -- svitan-vel t'sa-sov-saya

Convection -- da-kuv-falek'es  
 Convergence -- steraya  
 Cryosphere -- le-suma-ek'shal  
 Cumulonimbus (cloud) -- tra-masu-wan  
 Cumulus (cloud) -- tra-wan  
 Cyclone -- suk'sov-dan  
 Depression -- neik-shal  
 Desertification -- eshikhaya  
 Dew -- asal-masu  
 Dewpoint -- asal-masu-sfek  
 Divergence -- ri-steraya  
 Drop (rain, etc.) -- thek  
 Droplet -- pi'thek  
 Drought -- pseth-wak-krus  
 Dust storm -- grazhiv-sahriv  
 Electrostatic charge -- shi-raf-falun  
 Evaporation -- na-sovaya  
 Exosphere -- si-ek'shal  
 Fog -- ihsek  
 Fog-drip -- ihsek-masu  
 Föhn (wind) -- lamekh-suk'kunel-salan  
 Freeze (v.) -- le-sumau  
 Freezing level -- vok t'le-sumaya  
 Freezing nucleus -- svitan-vel t'le-sumaya  
 Front -- praduk  
 Frost -- le-suma-tin  
 Glaciation -- le-suma-wein  
 Glacier -- Dvun-le-sumatra  
 Greenhouse effect -- falek-pash-daya  
 Greenhouse gas -- pa-tukh t'falek-pash  
 Hail(stone) -- masu-kov  
 High pressure -- pid-ne'hish  
 Humidity -- sov-masu'es  
 Hurricane -- suk'masutra-eshu'a  
 Hydrologic(al) cycle -- masu-da-nel  
 Hygrometer -- sov-masu-thonek  
 Hygroscopic nucleus -- svitan-vel t'masu-shidau  
 Ice -- le-suma  
 Ice age -- le-suma-pal  
 Instability -- ri-fihet'es  
 Ionization -- falun-shetaya  
 Ionosphere -- falun-shetau-ek'shal  
 Isobar -- ka-ne'hish-zehl  
 Isotherm -- ka-falek'es-zehl  
 Lee wave -- hayal-sov-pral  
 Lightning - igen-wesh  
 Low pressure -- neik-ne'hish  
 Magnetosphere -- seshan-ek'shal  
 Mesosphere -- svitan-sov-ek'shal  
 Moisture -- masu'es  
 Nimbostratus (cloud) -- tin-masu-wan  
 Orographic cloud -- suk'kunel-wan  
 Pluvial -- sov-masupik

Precipitation -- sa-sovaya  
 Rain -- sov-masu  
 Rime -- ihsek-le-suma  
 Sandstorm -- mazhiv-sahriv  
 Sirocco -- eshikh-salan  
 Snow -- izh  
 Snow level -- izh-vok  
 Snowstorm -- izh-sahriv  
 Storm -- sahriv  
 Stratocumulus (cloud) -- tin-tra-wan  
 Stratosphere -- pid-sov-ek'shal  
 Stratus (cloud) -- tin-wan  
 Supersaturation -- dan-vi-mashaya  
 Thermosphere -- si-falek-ek'shal  
 Thunder -- rahm  
 Thunderstorm -- rahm-sahriv  
 Tornado -- da-eshu'a  
 Troposphere -- igen-va-ek'shal  
 Typhoon -- suk'masutra-eshu'a  
 Waterspout -- masutra-eshu'a  
 Weather -- igen-va  
 Wind -- salan  
 Wind shear -- salan-eitaya  
 Windstorm -- salan-sahriv

## ***OCEANOGRAPHY & MARINE BIOLOGY***

### **Masutra-tal heh Masutra-ha-tal**

Despite the fact that the planet Vulcan hasn't had any oceans for millions of years, the Vulcans developed a vocabulary of oceanographical terms from geologists' needs to describe discoveries about the planet's past. Vulcan does have several seas, similar in size to the Great Lakes of Earth's North America and smaller lakes. Later settlement of colony planets with oceans and even later exploration of watery Class M planets as members of the Federation, led to further development of these terms.

One curious detail is that most Vulcans have an in-born aversion to water and are not comfortable swimming or diving. Medical researchers believe this is due to two factors: Large enough bodies of freshwater to swim in have been rare since prehistoric times and the density of Vulcan tissues makes them non-buoyant, making swimming at the surface very strenuous. This aversion to water has disappeared in those beyond the third generation of Vulcan colonists of watery worlds and with those Vulcan offshoots, the Romulans.

### **Examples of Golic Vulcan vocabulary in these fields:**

Abyssal-benthic zone -- glu-gosh-shal  
 Archibenthic zone -- gan-gosh-shal  
 Algae -- smol  
 Anadromous -- zalmatrupik  
 Archipelago -- vikuvtra-travek  
 Backshore -- pid-shahov  
 Backwash -- s'yumaya  
 Bathyal zone -- glu-masutra-shal  
 Bathymetry -- glu-masutra-thonaya  
 Bathyscaph -- glu-masutra-hali  
 Bathysphere -- glu-masutra-vel  
 Bay -- tchol

Beach -- shahov  
 Beach cusp -- dah-stonn-pi'sef (t'shahov)  
 Benthic zone -- glu-masu-shal  
 Benthos -- ha-vellar t'masu-lan-tol  
 Biomass -- hatra  
 Bore -- pilash-mashen-pral  
 Breaker -- kik-pral  
 Catadromous -- yolmatrupik  
 Cay -- neik-vikuvtra  
 Coast -- gef  
 Cove -- pi'tchol  
 Current -- masutra-pilash  
 Deep-sea (system) -- gosh-glu'es  
 Diurnal intensity -- gadik flan'es  
 Ebb tide -- ne'le-mashen  
 Eulittoral zone -- gan-gef-shal  
 Gulf -- suk'tchol  
 Guyot -- masutra-pa'ash-kunel  
 High tide -- pid-mashen  
 High-water interval -- svi-wak t'pid-masu  
 Hurricane -- suk'masutra-eshu'a  
 Hydrometer -- masu-thonek  
 Hydrosphere -- masu-ek'shal  
 Ice floe -- le-suma-markaya  
 Ice shelf -- le-suma-eiktra  
 Iceberg -- le-suma-vel  
 Island -- vikuvtra  
 Isthmus -- solektra-naf  
 Key -- neik-vikuvtra  
 Lagoon -- masutra-muzh  
 Littoral (system) -- gef-glu'es  
 Low tide -- neik-mashen  
 Low-water interval -- svi-wak t'neik-masu  
 Manganese nodule -- kov-dukal t'shel-tukh  
 Mud flat -- vrel-eiktra  
 Neap tide -- dan-neik-mashen  
 Nekton -- numo-mahal-vel t'masutra  
 Neritic -- be-gefik  
 Ocean -- masutra  
 Ocean trench -- (masutra-)glu-spathel  
 Oceanic -- sa-gefik  
 Offshore bar -- gef-mazhiv-zehl  
 Pack ice -- le-suma-teraya  
 Pelagic -- masutrupik  
 Phytoplankton -- masutra-numo-kastik  
 Plankton (in general) -- numo-ha-vel t'masutra  
 Range of tide -- mashen-na-sa  
 Salinity -- alemik'es  
 Saltwater -- alem-masu  
 Sand -- mazhiv  
 Sand bar -- mazhiv-zehl  
 Sea -- masutra  
 Sea breeze -- masutra-pi'salan



Sea cliff -- masutra-menal  
Seafloor -- masutra-tol  
Seamount -- masutra-kunel  
Shoal -- ne'ti-hoknaya  
Shore -- gef  
Shoreline -- gef-zehl  
Slack water -- mashen-shom  
Spawning -- yu-mur-titaya  
Spring tide -- dan-pid-mashen  
Storm surge -- sahriv-tral  
Strait -- masu-naf  
Subduction zone -- ne-dvun-shal  
Sublittoral zone -- glu-gef-shal  
Submarine canyon -- (masutra-)glu-spathel  
Submarine plateau -- (masutra-)glu-pasutra  
Surf (zone) -- pral-shal  
Swash -- na'yumaya  
Swash mark -- na'yumaya-zehl  
Thermocline -- masu-falek-tin  
Tidal current -- mashen-pilash  
Tidal flat -- mashen-eiktra  
Tide -- mashen (old contraction of "masu-shen")  
Tsunami -- khrash-pral  
Typhoon -- suk'masutra-eshu'a  
Upwelling -- (masu-)abru-dvun  
Waterspout -- masutra-eshu'a  
Wave -- pral  
Zooplankton -- masutra-numo-aushfa

## Medical Sciences

### ***Introduction to Vulcan Physiology***

Vulcanoid species make up nearly one third of the population of the Federation. Although "vulcanoid" has had different meanings, the definition in The Unabridged Federation Standard Dictionary is "a being similar in physical form and chemical makeup to the dominant humanoid lifeform on the planet Vulcan and its colonies, hence derivation of the term . . ." The Romulans are actually the descendants of Vulcan emigrants, so for all intents and purposes, a description of Vulcan physiology will fit the Romulans as well.

For many years, it was believed that there was only one fairly homogenous race of Vulcans, so it was a great surprise when much darker Vulcans were first seen many years after Vulcan helped to create the United Federation of Planets (UFP). Indeed, The Star Fleet Medical Reference Manual (ISBN 0-345-27473) states that there is only one race of Vulcans because Star Fleet Medical had no knowledge to the contrary at the time. Explanations have been vague and it is thought that these "dark Vulcans" are from a minority race that has historically been a private, possibly xenophobic cultural subgroup. Because of certain privacy clauses in the Vulcan UFP membership agreement, the details behind the "second race" of Vulcans is unknown. It could be argued successfully that the Romulans form a separate race of Vulcans as well, because of physiological changes which have occurred due to differing climatic influences and probable genetic engineering programs in centuries past.

### ***General Body Size & Shape***

The Vulcans of T'Khasi are generally a tall, thin people, falling in the upper average height range for humanoid/vulcanoid species. Adult males average between 6'-6'7" (1.8-2.0 m) in height, adult females 5'7"-6' (1.7-1.8 m). Weight is commensurate with height and build, although Vulcans weigh slightly more than expected due to tissue density. Muscle density and strong attachment to the skeletal structure make Vulcans much stronger for their size than most humanoids. Vulcans display a natural ability in many athletic events and martial arts. Their tall, thin body structure also aids in the dispersion of heat, the same as that of the similar body structure found in desert-dwelling aborigines on many worlds, including Earth.

### ***Vulcan Biochemical Makeup***

The biochemical makeup in Vulcans of T'Khasi and its colonies is very similar to that in many humanoid and especially vulcanoid species of known space. At the cell nucleus level can be found DNA and chromosomal structures similar to most humanoid/vulcanoid races, giving strong support to the theory that life throughout the Milky Way Galaxy had a common source untold billions of years ago. "Species seeding" also was apparently carried out by an ancient super-race of beings, often called The Preservers. Since vulcanoid species appear throughout the galaxy, it is obvious that some process led to this occurrence but an answer is unknown. T'Khasi is considered the evolutionary and genetic source for all known vulcanoids, because the Vulcans are genetically related to all other lifeforms on their planet, whereas the vulcanoids on many other worlds have turned out to have alien DNA.

The blood of most vulcanoids, including the T'Khasi Vulcans, is made up of hemoglobin based on copper. (Several primitive vulcanoid species have been discovered with iron-based hemoglobin, just like that of most other humanoids, but we will not discuss that any further here.) This copper-based blood is most obvious from its green color, which also tints the tissues of Vulcans greenish, much like the iron-rich red blood of many other races tints their tissues a pinkish or reddish color. Having copper-based blood aids in the utilization of oxygen under the low atmospheric pressure and low oxygen conditions on T'Khasi. The Vulcan

blood cells have a double-convex form, which in addition to helping to maximize oxygenation, also aids in cooling each blood cell, the blood stream, and ultimately the entire body. A lot of the waste heat conducted by blood cells is transferred into the lungs during respiration, thus making the exhaled breath of Vulcans fairly hot under most conditions, especially during exertion.

### ***Vulcan Senses***

**Sight** -- as in most humanoid/vulcanoid species, Vulcans have a forward-facing, stereoscopic pair of eyes. Each eye is protected by a clear inner eyelid or nictating membrane (*tvi-wein t'bezhun*) that helps filter out harmful radiation, heat and dust. Vulcan vision is less acute in bright light, while their night vision is more acute. This is thought to be due to the fact that the Vulcans descended from nocturnal predatory "cat-apes". As in most very hot and arid climates, most life on Vulcan was and is nocturnal, sheltering from the blistering heat during the day and only coming out during cooler temperatures at night. Because of their eyes, Vulcan living accommodations or vessels are much more dimly lit than those of most other species. Most Vulcans find the lighting of standard Star Fleet vessels on the bright side, although they find the lighting of Romulan or Klingon vessels comfortable. It has recently been discovered that many Vulcans serving on mixed Star Fleet vessels wear a type of tinted, polarizing contact lens to enable them to work without unnecessary and unhealthy eye strain.

**Hearing** -- as in most humanoid/vulcanoid species, Vulcans have a pair of ears on each side of their heads. The ears of most vulcanoids are very distinctive in that the top of the external ear structure tapers into a clearly defined point. This is the case with the T'Khasi Vulcans and their descendants. There appears to be a clear sexual dimorphism in ear shape, with males tending to have bigger ears with more prominent points. It has long been suspected that some Vulcans cosmetically alter the shape and angle of their ear tips to conform to an aesthetic standard. This may be supported by the fact that certain societal outcasts, Vulcans who chose to live a non-technical, traditional life, and members of certain monastic groups seem to have much longer, and often curved, ear tips. The hearing of the Vulcans, and indeed that of most vulcanoids, is very acute under most conditions. While the Vulcan low frequency hearing range is nearly identical to humans, their high frequency hearing range is significantly higher. This is to be expected in beings descended from predatory, nocturnal creatures living in a thin atmosphere.

**Smell** -- the size and shape of the nose of Vulcans conforms to the normal range of most humanoid/vulcanoid species. Because of their evolution in a hot, arid environment, though, the nose of the Vulcans has become highly adapted to filtering dust and sand from the air during inhalation, and minimizing moisture loss during exhalation. Because the sinus spaces of the Vulcans contain moisture-reclaiming cells in place of what would be a large number of olfactory cells in other beings, the sense of smell of Vulcans is not nearly as acute as that of most other humanoid species.

**Taste** -- the size and shape of the tongue of Vulcans conforms to the normal range of most humanoid/vulcanoid species. Unfortunately, due to the fact that taste is related to the sense of smell, Vulcans have a well-known lack of taste sensation. Vulcans are especially weak in tasting sweet things, although their sense of taste for salty and bitter things is relatively good. In order to enjoy the taste of things, Vulcans have historically tended to highly spice or season their foods. Some traditional Vulcan dishes are nearly impossible to eat by other humanoids.

**Touch** -- as is the case with most vulcanoid species, the Vulcans have a very acute sense of touch in all its forms, especially heat, pressure and texture. Vulcans are tactile beings by nature but must, by necessity, limit their contact with living beings because of their innate telepathic abilities. One of the strongest taboos in Vulcan culture is making uninvited physical contact. Even husbands and wives often only touch each other with one or two fingers at most in day-to-day situations. Contact such as hand-holding, hugging or kissing is unknown in civilized Vulcan behavior. It is only accepted and considered normal for infants and toddlers to make much physical contact with others. Unfortunately, it is the normal behavior of most humanoids to grasp hands, embrace, or make other such physical contact during greeting and conversation. This behavior is very

uncomfortable and even distasteful to Vulcans, but they have learned to bear it as the price of living and working with non-Vulcans.

### ***Body Organs & Systems***

**Skin** -- the epidermis of Vulcans, unlike that of many other humanoids, is a twin-featured moisture-proof barrier to prevent dehydration. Vulcans lack sweat glands as an evolutionary development to conserve moisture in an extremely hot, arid climate. Excess heat is drawn away by the blood to be exhaled or stored and radiated from the skin when external temperatures are lower. This is why Vulcans have a very warm breath and their skin is almost hot to the touch under most conditions. Another difference in the skin of Vulcans is the fact that, even though the skin does not give off moisture, it can directly *absorb* moisture from the surroundings if there is any. In prehistoric times, Vulcans would stand in rare fog or rainfalls nude to maximize absorption of precious water that the body then stored. This technique is taught to the present day as a survival tool.

**Brain** -- externally, it is difficult to tell the Vulcan brain from that of most sentient humanoid/vulcanoid species. Of course, if a human and Vulcan brain were set side by side, it would be possible even for a layman to tell which was which simply by color -- the human brain is greyish with a pink tinge, whereas the Vulcan brain is greyish with a green tinge. A normal Vulcan brain is about 1600 cc in size, practically identical to that of humans. The olfactory center of the Vulcan brain is smaller due to function (see the "Nose" section above), while the Vulcan mid-brain is somewhat larger and more convoluted than that of a human, explaining the telepathic powers all Vulcans possess to one degree or another. Unlike the early medical knowledge of many humanoid/vulcanoid species, which centered the mind in various parts of the anatomy, as far back as their history is recorded, Vulcans knew the brain was the site of thoughts, memories, knowledge and emotions.

**Heart** -- the Vulcan heart is located approximately where one would expect to find the liver in most humanoids. It is believed that the Vulcan heart was displaced to allow additional space for the lungs which, by necessity, are somewhat larger in order to extract sufficient oxygen from a thin atmosphere. In order to protect the heart region, cartilaginous ribs extend lower on the torso of a Vulcan. Another consequence of the position of the heart and lower ribs is that the fetus is carried quite low in Vulcan women, often causing discomfort for most of the pregnancy. The adult Vulcan heart rate is approximately 240 beats per minute and normal blood pressure is 80/40, both far from the norm of most humanoids. The Vulcan heart is larger than humanoid/vulcanoid average for body size due to the increased workload of the heart in not only circulating blood to feed the tissues and remove wastes, but also to aid in the cooling of the body.

**Liver** -- the Vulcan liver is much smaller than that of most humanoids because many of the functions it has in other humanoids is done elsewhere in the Vulcan body. For example, the Vulcan kidneys not only filter fluids, they filter out and store certain substances. Other parts of the digestive and circulatory systems also have additional functions.

**Kidneys & Bladder** -- in some ways the kidneys of the Vulcan are more important than any other organ, since they manage the body's water retention system. In pre-technical times, kidney disease was the number one medical condition that caused a premature death, whereas cancers or heart disease were the cause in most other humanoids. The Vulcan urinary system passes slightly less than half of all water taken into the body, while the rest is recycled. This is an adaptation to life on a very dry, arid planet where water is rarely found in its natural state. The urine of Vulcans is relatively thick and viscous, actually more like an oil than a watery liquid. The Vulcan bladder can hold urine for a number of days, unlike the bladders of most humanoids which have to be drained at least once a day and usually more often. The lining of the bladder also plays a small part in retrieving some water before the urine is finally eliminated.

**Stomach & Digestion** -- as with all known true humanoid/vulcanoid beings, Vulcan digestion begins in the mouth with the chewing of food and its mixture with saliva. As part of their evolutionary development to

conserve moisture, Vulcans do not salivate from emotional or external sensual cues. Food has to actually be in the mouth being chewed before saliva will be released. After swallowing, the food bolus travels down the esophagus to the stomach with peristaltic contractions. The esophagus is separated from the stomach by the esophageal valve ("cardiac sphincter" in humans). The Vulcan "stomach" is actually two joined chambers -- the first section is a spherical muscular object and the second section is a flattened oval object. The two sections are separated by the first pyloric valve. In the first stomach, the undigested food is mixed with acids and enzymes, then subjected to vigorous muscular contraction until it is broken down into a mash. After formation of this mash, the first pyloric valve opens and the contents enter the second stomach. The first valve closes, as well as a second pyloric valve at the posterior end, if not already closed. The second stomach is where the mash from the first stomach is subjected to more intense acids, bile and enzymes, quickly reducing the contents to their basic components. After digestion is complete, the second pyloric valve opens and the soupy mixture enters the intestine where absorption of nutrients and water takes place.

Because civilized Vulcans have been vegetarians for many centuries, most Vulcans are unable to digest meat products of any kind should a survival situation require it. Most Vulcan first aid or survival kits contain packets of oral enzyme supplements for use in such emergencies. Replicated meat substitutes, based on plant proteins, do not require such supplements.

**Intestine & Excretion** -- the intestine of the Vulcans plays the same role as it does in all lifeforms with one, absorbing nutrients and water, and packaging wastes for excretion. The intestine of Vulcans is very simple compared to those of most humanoid species. Instead of a complicated system of duodenum, jujunum, ileum, and large intestine, the Vulcans only have a continuous coil of intestine that is a blend of features from the small and large intestines of other humanoids. The Vulcans do not possess an appendix. As with all Vulcan body systems, the intestine of the Vulcan body is very efficient, and the feces that is eliminated is a fairly dry, compact mass. Diarrhea, although very rare, will kill a Vulcan much quicker than most humanoids, unless copious amounts of water are ingested immediately to replace what is lost. According to the Vulcans, constipation and hemorrhoids are unknown to them, although Federation medical experts are dubious of this claim, despite never encountering either condition in a Vulcan to date!

**Reproductive Systems** -- as with the vast majority of known humanoid/vulcanoid beings, the Vulcans are differentiated into male and female genders. In response to extreme environmental conditions, where mortality is high, all native T'Khasi animal life, including the Vulcans themselves, can breed at any time during the year. The Vulcan female is always fertile. The Vulcan male can mate at any time, but *must* mate every 7 years during *pon farr* or he will die. Vulcans will not readily discuss this subject with non-Vulcans, but Federation doctors and biologists have noted this 7-year cycle in all Vulcan animal life to one extent or another. It is now believed that all Vulcan life was synchronized in this 7-year cycle at some point in the very distant past. Astronomers have noted a 7-year cycle of solar activity in the Vulcan star system and it is believed that animal life on T'Khasi evolved to breed without fail during this time of especially low solar activity when radiation levels of all kinds were at their lowest.

The Vulcan male reproductive organs parallel those of most other known humanoid/vulcanoid beings. The Vulcan penis is an erectile structure without external sheath or foreskin, therefore Vulcans have no need for circumcision. As part of the evolutionary process of T'Khasi life, the male organ is almost fully retracted into the body when not in use as a protective measure. Vulcans also have two testes in a scrotal structure that is close to the body, not pendulous, and a prostatic body that produces and stores seminal fluid. Once ejaculated, the sperm of Vulcans is viable for a maximum of about 30 hours before losing mobility. It is believed that Vulcan males remain fertile during their entire adult life.

The Vulcan female reproductive organs also closely parallel those of other known humanoid/vulcanoid beings. They are comprised of a vagina, uterus and ovaries. There are no lengthy uterine or Fallopian tubes in Vulcan women; the ovaries are directly connected to the uterine body by short ducts. As part of the evolutionary process to conserve body water, Vulcan women do not menstruate. Ovulation occurs each month from alternate ovaries. The ovum enters the uterus usually in less than a day, where it remains awaiting fertilization. If no fertilization takes place within 10-14 days, the ovum deteriorates and its

substance is absorbed into the uterine lining. Should fertilization occur, the blastocyst will implant itself in the uterine wall and hormones will activate formation of a placenta. Growth and development of a fetus will occur within the uterus with delivery being made through the vagina. The need for Caesarian types of deliveries, although rare, is not unknown to Vulcans. Twinning is very rare in Vulcans, probably as a consequence of evolving on a planet where scarce resources would favor only survival of one infant at a time. Fraternal twins are exceedingly rare, whereas identical twins are the norm. Multiple births beyond three are unheard of. The idea of giving birth to multiple children is considered repugnant to most Vulcans and may be innate. It is unknown how long Vulcan females remain fertile, although it is believed that it lasts well into maturity. Vulcan women on T'Khasi rarely have more than two children in a lifetime, unless they need to replace a child that died, but Vulcans on colony worlds are known to have as many as five children.

## Medical Terminology Has-Zhilikam

### Examples of disciplines in the medical sciences:

Anatomy -- Vukhut-tal  
 Anesthesiology -- Kashan-ne-tal  
 Angiology -- Vukhut-mev-tal  
 Audiology -- Ralash-tal  
 Biochemistry -- Ha-meil-tal  
 Biophysics -- Ha-tor-tal  
 Cardiology -- Khaf-spol-tal  
 Cytology -- Nala-tal  
 Dermatology -- Wadi-tal  
 Epidemiology -- Has-sak-tal  
 Ergonomics -- Zup-dvun-tal  
 Eugenics -- Tash-noshtra-tal  
 Gastroenterology -- Skaun-ek'ur-tal  
 Genetics -- Tol-tal  
 Geriatrics -- Shakhu-tal  
 Gerontology -- Shakhuvaya-tal  
 Hematology -- Khaf-tal  
 Hepatology -- Nehasamek-tal  
 Histology -- Numo-kelek-tal  
 Kinesiology -- Vukhut-dvun-tal  
 Microbiology -- Numo-ha-tal  
 Mycology -- Luk-tal  
 Neonatology -- Uzh-keshtu-tal  
 Nephrology -- Kapol-nafek-tal  
 Oncology -- Gnal-tal  
 Osteology -- Hinek-tal  
 Pathology -- Has-tal  
 Pharmacology -- Haseret-tal  
 Physiology -- Is-lof-tal  
 Proctology -- Pekh-vat-tal  
 Psychiatry -- Kashkau-tal  
 Psychology -- Klosehai-tal  
 Toxicology -- Gisam-tal  
 Urology -- Vazh-ek'ur-tal

### Examples of Golic Vulcan medical sciences terminology:

Abdomen -- feshek  
 Abduction -- sa-dvunel  
 Ablactation -- pehk-thasaya  
 Ablepharia -- fam-bezhun-wein  
 Ablutophobia -- wu'sibau-pthak  
 Abnormal -- ritsuri  
 Abrachia -- fam-karlar  
 Abrasion -- grashaya  
 Absorption -- vi-seshaya

Abscess -- pi'tak  
 Acataphasia -- rish-nahp-nosh  
 Accretion -- fito'ovaya  
 Acerophobia -- sfith-pthak  
 Ache (n.) -- sut  
 Achluophobia -- mu'gel-pthak  
 Achromasia -- spoh-wadi-nosh  
 Acidemia -- pid-sash-nosh  
 Acidity -- sash'es  
 Acidosis -- ritsuri-sash-nosh  
 Acousticophobia -- ralash-pthak  
 Acrophobia -- pidek-pthak  
 Actinomycosis -- halek-talvot-has  
 Acuity -- zat'es  
 "Acupria" (Vulcan counterpart to anemia) -- fam-khaf-meil  
 Addiction -- tessaya  
 Adduction -- na-dvunel  
 Adenoid -- za-han-pi'nafek  
 Adhesion -- terpaya  
 Adipose tissue -- thel'upik nalatra  
 Adrenal gland -- abru-kapol-nafek  
 Aerate -- sov-tan-tor  
 Aerobe -- sov-ha-vel  
 Afebrile -- fam-tau  
 Agalactia -- fam-thas-nosh  
 Agglutinin -- vihk-tukh  
 Agglutininogen -- vihk-tukh-torek  
 Aging -- shakhuvaya  
 Agnosia -- fam-naglashaya-nosh  
 Agoraphobia -- tu'ashal-pthak  
 Agraphia -- fam-kitaya-nosh  
 Agrizoophobia -- kwai-aushfa-pthak  
 Aichmophobia -- sfek-vel-pthak  
 Air embolism -- sov-mev-klotaya  
 Air sickness -- hash-has-mar  
 Airway -- esh-mev  
 Airway obstruction -- esh-mev-klotaya  
 Akinesia -- fam-dvunel-nosh  
 Albinism -- fam-kur-nosh  
 Albino -- fam-kursu  
 Albumin -- tesihk  
 Alcohol -- naliveh  
 Algophobia -- kusut-pthak  
 Alimentary canal -- skaun-ek'ur  
 Alkalemia -- pid-sovash-nosh  
 Alkalosis -- ritsuri-sovash-nosh  
 Allele -- tol-shid  
 Allergy -- tehn-foleya  
 Alogia -- pak t'stariben-kup'es  
 Alopecia -- isachaya-pak  
 Alveolus -- esh-nala  
 Amastia -- fam-thasek-nosh  
 Amathophobia -- grazhiv-pthak



Ambient -- pa-noshik  
 Ambulatory -- kup-lates-tor  
 Ambulophobia -- lates-pthak  
 Amino acid -- sash t'ha-torek  
 Amniocentesis -- sudef-masu-nisan  
 Amniotic fluid -- sudef-masu  
 Amniotic sac -- sudef-masu-sa'haf  
 Amorphous -- fam-shidik  
 Amputation -- sanesh  
 Amychophobia -- thesh-pthak  
 Amyoplasia -- fam-dvunek-storaya  
 Amyotrophia -- dvunek-pak-nosh  
 Anabolism -- torvau-torek  
 Anaphylactic shock -- pid-folau-kolaya  
 Ancraophobia -- salan-pthak  
 Androgen -- dau-tukh t'sa-noshtra  
 Androphobia -- sasu-pthak  
 Anemia -- fam-khaf-meil  
 Anesthesiologist -- kashan-nesu  
 Anesthetic -- kashan-ne-meil  
 Aneurysm -- khaf-mev-eikan  
 Angiologist -- vukhut-mevsu  
 Angioma -- mev-gnal  
 Ankle -- mal-nik  
 Anorchia -- fam-sakal-nosh  
 Anosmia -- fam-fnish-nosh  
 Anovulation -- fam-yukaya  
 Anoxia -- fam-esh-tukh  
 Antacid -- tehn-sash-meil  
 Anterior -- khom'rak  
 Anthrophobia -- svai-pthak  
 Antibiotic -- tehn-talvot-tukh  
 Antibody -- fosh-galutravek  
 Anticoagulant -- tehn-vihk-tukh  
 Antidote -- tehn-gisam-tukh  
 Antiemetic -- tehn-slakh-tukh  
 Antigen -- tehn-vel  
 Antimycotic -- tehn-luk-tukh  
 Antipruritic -- tehn-drizh-tukh  
 Antipyretic -- tehn-tau-tukh  
 Antiserum -- tehn-has-masu  
 Antitoxin -- tehn-hasam-tukh  
 Antitussive -- tehn-huhsh-tukh  
 Antivenin -- tehn-ausham-tukh  
 Antlophobia -- abrash-pthak  
 Anuria -- ritsuri-vazhaya-nosh  
 Anus -- pekh-razh  
 Apeirophobia -- va'es-pthak  
 Aphenphosmophobia -- puesthul-pthak  
 Apnea -- esh-pehkaya-nosh  
 Appetite -- yeht-avon  
 Aqueous -- masupik  
 Areola -- kur-kuv

Arithmophobia -- su'us-pthak  
 Arm -- kar  
 Arrest -- pehkaya  
 Arrhythmia -- ritsuri nel-dath t'khaf-spol  
 Artery -- uzh-khaf-mev  
 Artificial heart -- sutorik khaf-spol  
 Artificial insemination -- sutorik sa-neitaya  
 Artificial kidney -- sutorik kapol-nafek  
 Artificial pancreas -- sutorik zalu-nafek  
 Asthenia -- fam-karik'es-nosh  
 Astringent --(wadi-)wufkau-tukh  
 Ataraxis -- kash-hayal'es  
 Athazagoraphobia -- zhuk-fak-pthak  
 Atresia -- fam-sharushan-nosh  
 Atrium -- tvi-shal  
 Atychiphobia -- vravshaya-pthak  
 Auditory canal -- zhu-ur  
 Auditory center -- zhu-svitan (t'shad)  
 Auditory nerve -- zhu-wel  
 Auricle -- si-kaluk  
 Aurophobia -- kin-tukh-pthak  
 Automysophobia -- pukitork-pthak  
 Autonomic nervous system -- shati-wel-torektra  
 Autonomic reflex -- shati-tvisek  
 Avulsion -- sa-tres  
 Axon -- wel-elakh  
 Azotemia -- pid-sovu-vok svi'khaf  
 Azoturia -- pid-sovu-vok svi'vazh  
 Azygous -- ri-shifik  
 Azymia -- fam-zalu-nosh  
 Baby -- kan-bu  
 Bacillemia -- nosh t'fek-talvot svi'khaf  
 Bacillophobia -- pthak t'numo-ha-veller  
 Bacilluria -- nosh t'fek-talvot svi'vazh  
 Bacillus -- fek-talvot  
 Back -- pla'dor  
 Backbone -- plat  
 Bacteremia -- nosh t'talvot svi'khaf  
 Bacterial -- talvotik  
 Bactericide -- talvot-stau-tukh  
 Bacteriophobia -- talvot-pthak  
 Bacterium -- talvot  
 Basal ganglia -- nen-weltralar  
 Bathophobia -- gluder-pthak  
 Bathycardia -- nosh t'neik-khaf-spol  
 Beard -- hisahk  
 Benign -- rigath  
 Bibliophobia -- dunap-pthak  
 Bile -- thel'a-zalu-masu  
 Biliary tract -- thel'a-zalu-ek'ur  
 Binocular -- dah-bezhunik  
 Biohazard -- ha-tehvar  
 Biopsy -- nalatra-nisan

Birth -- keshtan  
 Birthmark -- keshtan-kur-vel  
 Bisect -- dah-nesh-tor  
 Bladder -- vazh-sa'haf  
 Blastocyst -- tab-nala-dukak  
 Bleb -- wadi-masu-vihk  
 Bleeding -- khafaya  
 Blennophobia -- shuhk-pthak  
 Blindness -- glan-fam'es  
 Blister -- yontau-masu-vihk  
 Blockage -- klotaya  
 Blood -- khaf  
 Blood cell -- khaf-nala  
 Blood clot -- khaf-vihk  
 Blood coagulation -- khaf-vihkaya  
 Blood count -- khaf-tum  
 Blood donor -- khaf-tansu  
 "Blood fever" - plak-tau  
 Blood flow -- khaf-yumaya  
 Blood group -- khaf-maat  
 Blood poisoning -- khaf-gisaman  
 Blood pressure -- khaf-ne'hish  
 Blood test -- khaf-nisan  
 Blood typing -- khaf-vesaya  
 Blood vessel -- khaf-mev  
 Body -- vukhut  
 Boil -- pi'tak  
 Bolus -- yemtra  
 Bone -- hinek  
 Bone cancer -- hinek-rasahtra  
 Bone marrow -- hinek-masu  
 Brachialgia -- kar-kusut(-nosh)  
 Bradycardia -- vohri-threshan-nosh t'kahf-spol  
 Bradylylia -- vohri-stariben-nosh  
 Bradypnea -- vohri-threshan-eshan  
 Brain -- shad (or "shi'nahp", the older term)  
 "Brain death" -- ek'tevakh  
 Brain tumor -- shad-gnal  
 Break (n.) -- shaya  
 Breast -- thasek  
 Bronchiole -- pi'eshaf-mev  
 Bronchitis -- eshaf-mev-yonshaya  
 Bronchus -- suk'eshaf-mev  
 Bruise (n.) -- wadi-yarek  
 Bubo -- yonshauk yak-kal  
 Bucca -- nak  
 Bundle -- slahtra  
 Burn (n.) -- yontaya  
 Buttocks -- pla'kruslar  
 Cacophobia -- watosh-pthak  
 Cadaver -- tevikeh  
 Calcaneus -- timut-hinek  
 Calcareous -- gavik

Calcification -- hinekaya  
 Calcitonin -- hinek-dau-tukh  
 Calculus -- nafek-kov  
 Calf -- vaukh  
 Cambium -- tvi-tin t'hinek-nalatra-wein  
 Cancer -- rasahtra  
 Canker (sore) -- wuk  
 Capillary -- pi'khaf-mev  
 Carbuncle -- pi'taktra  
 Carcinogen -- rasahtra-torek  
 Carcinoma -- wein-nala-rasahtra  
 Cardiac arrest -- khaf-spol-pehkaya  
 Cardiomegaly -- khaf-spol-sukaya  
 Cardiovascular system -- khaf-ifis-torektra  
 Carditis -- khaf-spol-yonshaya  
 Carnophobia -- kahm-pthak  
 Carotid artery -- uzh-khaf-mev t'talu  
 Cartilage -- rihinek  
 Cartilagification -- rihinekaya  
 Catabiosis -- tsuri nala-shakhuvaya  
 Catabolism -- tepul-torek  
 Catalyst -- torai-tukh  
 Cataract -- bezhun-ripa'shaya  
 Catarrh -- tvi-votaya t'prash-nala-tin  
 Catheter -- smashau-mev  
 Catoptrophobia -- haulat-pthak  
 Caustic -- yontau-meil  
 Cavity (body) -- pi'tauk  
 Cavity (tooth) -- zud-razh  
 Cell -- nala  
 Cellulitis -- nalatra-yonshaya  
 Central nervous system -- nen-wel-torektra  
 Cephalgia -- patam-kusut  
 Cerebellum -- dvunek-tash-svitan  
 Cerebrum -- nahp-tash-svitan  
 Cervical vertebra -- talu-hinek  
 Cervix -- sudef-talu  
 Chaetophobia -- isachya-pthak  
 Chamber -- tvi-shal  
 Cheek -- nak  
 Cheilitis -- bru-yonshaya  
 Chest -- tuf  
 Chilblain -- samek-yontaya  
 Child -- kan  
 Childbirth -- kan-keshtan  
 Childhood -- kan-wak  
 Chiralgia -- el'ru-kusut  
 Chondroma -- rihinek-gnal  
 Chondromalacia -- rihinek-mosaya  
 Chondrosarcoma -- rihinek-rasahtra  
 Chromosome -- toltra  
 Chronophobia -- wak-pthak  
 Cicatrix -- ulidar

Cilia -- nala-isachya  
 Circulation -- da-kuvaya  
 Claustrophobia -- ikap-shal-pthak  
 Clavicle -- dol-hinek  
 Clot -- vihk  
 Coagulant -- vihk-tukh  
 Coccus -- dukal-talvot  
 Coccygeal vertebra -- harr-hinek  
 Coccyx -- harr-hinektra (or "tvi-harr")  
 Coenzyme -- dah-zalu  
 Colitis -- pekh-mev-yonshaya  
 Colon -- pekh-mev  
 Colostomy -- pekh-mev-sharutaya  
 Coma -- ritevakh  
 Compound (chemistry) -- meilaktra  
 Compulsion -- riyeh-taitlun  
 Concussion -- kwul-kolaya  
 Condition -- nosh  
 Connective tissue -- terau-nalatra  
 Contusion -- wadi-yarek  
 Convulsion -- mahai  
 Coprophobia -- pekh-pthak  
 Cord -- elakh  
 Corditis -- elakh-yonshaya  
 Cornea -- bezhun-wadi  
 Coronary artery -- uzh-khaf-mev t'khaf-spol  
 Coronary occlusion -- khaf-spol-klotaya  
 Coronary thrombosis -- vihk-klotaya t'khaf-spol  
 Corpse -- tevikeh  
 Corpuscle -- pi'vel  
 Cortex -- si-wein  
 Costa -- bak  
 Coxa -- gaf  
 Cranial nerve -- patam-wel  
 Cranium -- patam-hinektra  
 Cryophobia -- samu-pthak  
 Cusp -- sfek  
 Cut (n.) -- nesh  
 Cymophobia -- pral-pthak  
 Cyst -- shaf  
 Cystitis -- vazh-shal-yonshaya  
 Cytoplasm -- nala-tukh  
 Damage (n.) -- zakar  
 Dandruff -- (patam-)wadi-grazhiv  
 Deafness -- zhu-fam'es  
 Death -- tevakh  
 Debility -- fam-karik'es-nosh  
 Debridement -- skek-nalatra-snem  
 Decay (n.) -- nehaya  
 Decortication -- nafek-wein-snem  
 Defecation -- pekhaya  
 Deficiency -- fam-nosahp'es  
 Deformity -- riyeh-tshid'es

Dehydration -- nemashaya  
Delusion -- plokh  
Dendrite -- wel-gel  
Dendrophobia -- lap-pthak  
Dental caries -- zud-nehaya  
Deossification -- hinek-ek'tukh-pak  
Deoxyribonucleic acid (DNA) -- sash t'dah-ha-svitan (SDH)  
Depilatory -- isachya-snem-meil  
Dermabrasion -- wadi-grashaya  
Dermal regenerator -- wadi-vaferek  
Dermatitis -- wadi-yonshaya  
Desquamation -- wadi-foshuhn  
Detached retina -- dahlik glan-nalatra-tin  
Detoxification -- nehasamaya  
Development -- storaya  
Deviant -- tekerik  
Diabetes -- ritsuri-nosh t'slor-dau-tukh  
Diagnosis -- nosh-satalaya  
Diaphragm -- esh-dvunek  
Diarrhea -- masu-pekh(-nosh)  
Differential diagnosis -- natya-nosh-satalaya  
Differentiation -- natyataya  
Diffusion -- sasak  
Digestion -- skaun  
Digestive tract -- skaun-ek'ur  
Digit -- uk  
Dilation -- eiksharu  
Diplopia -- dah-glan  
Dipsophobia -- mon-pthak  
Disability -- rikup'es  
Discharge (n.) -- khrasaya  
Disease -- has  
Dislocation -- sashitaya  
Dissection -- dahli-neshan  
Dizygotic twins -- dahsular s'natya-yu-murlar  
Dominant gene -- abru-tol  
Dorsiflexion -- pla'vulaya  
Dose -- fim  
Drainage -- smashaya  
Duct -- mev  
Dysentery -- pekh-mev-yonshaya  
Dysfunction -- ritsuri-is-lof  
Dysgraphia -- ritsuri-kitau-nosh  
Dyskinesia -- ritsuri-dvun-nosh  
Dyslogia -- ritsuri-nahp-nosh  
Dysosmia -- ritsuri-fnish-nosh  
Dyspepsia -- ritsuri-skaun-nosh  
Dysphagia -- ritsuri-vinem-nosh  
Dysphasia -- ritsuri-stariben-nosh  
Dysphonia -- ritsuri-spes-nosh  
Dyspnea -- ritsuri-esh-nosh  
Dysuria -- ritsuri-vazh-nosh  
Ear -- kaluk

Earache -- kaluk-kusut  
 Eardrum -- zhu-nalatra-tin  
 Edema -- ritsuri-masu-hoknaya  
 Ejaculation -- khrasaya  
 Elbow -- kar-nef  
 Electric(al) burn -- raf-yontaya  
 Electric(al) shock -- raf-kolaya  
 Electrolyte -- falun-krus-tukh  
 Elimination -- masu-snem, tukh-snem  
 Embolism -- mev-klotaya  
 Embolus -- el-klotau-vel  
 Embryo -- ten-kan-bu  
 Emollient -- wadi-mosek  
 Emulsion -- dah-masu  
 Encephalitis -- shi'nahp-yonshaya  
 Endarteritis -- yonshaya t'uzh-khaf-mev  
 Endocarditis -- yonshaya t'tvi-tin t'khaf-spol  
 Endocardium -- tvi-tin t'khaf-spol  
 Endocrine gland -- tvi-sau-pi'nafek  
 Endocrine system -- tiv-sau-torekra  
 Endometrium -- sudef-tvitaya  
 Endoscope -- tvi-zan-vel  
 Endoscopy -- tvi-zanan  
 Endosteum -- tvi-hinek-tvitaya  
 Enema -- pekh-razh-pun  
 Energy -- tepul  
 Enlargement -- sukaya  
 Enteritis -- pekh-mev-yonshaya  
 Entomophobia -- ravot-pthak  
 Eucleation -- ek'krus-snem  
 Enuresis -- ritash-vazhaya  
 Enzyme -- zalu  
 Epicranium -- patam-wadi-tin(lar)  
 Epidemic -- shal-has-sak  
 Epidermis -- si-wadi  
 Epididymis -- pi'sa-nei-mev  
 Epiglottis -- vinem-pi'rala  
 Episcleritis -- bezhun-wan-yonshaya  
 Epistaxis -- han-khafaya  
 Epithelial cell -- wein-nala  
 Epithelial tissue -- wein-nalatra  
 Epithelium -- wein-nala-tin  
 Erectile tissue -- abru-nalatra  
 Erection -- abrun  
 Ergophobia -- ar'kada-pthak, zup-pthak  
 Ergotism -- has-mar s'yartik-luk  
 Erosion -- skrashaya  
 Eructation -- skaun-sa'haf-sovaya  
 Eschar -- yontaya-net  
 Esophagus -- yakul-mev  
 Esotropia -- vi'le-da-nosh t'bezhun(lar)  
 Estrogen -- ko-dau-tukh  
 Eunuch -- risakallarsu

Eustachian tube -- kaluk-mev  
 Euthanasia -- rom-staya  
 Excision -- snesh  
 Exfoliation -- wadi-foshuhn  
 Exhalation -- s'le-eshan  
 Exocrine gland -- si-sau-pi'nafek  
 Exostosis -- hinek-vihk  
 Exotropia -- s'le-da-nosh t'bezhun(lar)  
 Expansion -- sa'ovaya  
 Expiration -- s'le-eshan  
 Exsanguination -- ek'khafaya  
 Extension -- sadvun  
 Extensor (muscle) -- sadvunek  
 External -- s'udish  
 Extirpation -- ek'snesh  
 Extraction -- saseshaya  
 Extremity -- si-vukhut-krus  
 Extravasation -- si-mev-tasaya  
 Exudation -- stan  
 Eye -- bezhun  
 Eyebrow -- bezhun-zehl  
 Eyelash -- bezhun-isachya  
 Eyelid, Inner -- tvi-bezhun-wein  
 Eyelid, Outer -- si-bezhun-wein  
 Face -- limuk  
 Fascicle -- pi'slahtra  
 Fat (n.) -- thel'a  
 Fat metabolism -- thel'a-di'kish-torek  
 Fatigue -- zung  
 Fatty acid -- thel'a-sash  
 Febrile -- taulik  
 Fecalith -- pekh-kov  
 Feces -- pekh  
 Fecund -- brashik  
 Feeling (n.) -- olaya  
 Female (adj.) -- kotik  
 Female (n.) -- ko  
 Femoral artery -- uzh-khaf-mev t'abru-mal  
 Femoral nerve -- nen-wel t'abru-mal  
 Femur -- abru-mal-hinek  
 Fenestra -- krani  
 Fenestration -- krani-sharushan  
 Fertile -- kanashik  
 Fertility -- kanash'es  
 Fertilize -- vikantau  
 Fertilization -- vikantaya  
 Fester -- vugau  
 Fetus -- tvi-kan-bu  
 Fever -- tau  
 Fiber -- slah  
 Fibroid tumor -- slah-gnal  
 Fibrous -- slahtik  
 Fibula -- vaukh-hinek



Filiform -- (og-)elakh-shidik  
 Filtration -- kapol-toraya  
 Finger -- ozh  
 Fission -- nala-dahshaya  
 Fist -- ozh-dukal  
 Flaccid -- nemosik  
 Flagellum -- dvunel-pi'harr  
 Flap -- pi'rala  
 Flatfoot -- pa'ash'ya (contraction of pa'ash-ash'ya)  
 Flesh -- kahmtra  
 Flexion -- tedvun  
 Flexor (muscle) -- tedvunek  
 Flutter (n.) -- nuv  
 Fold (n.) -- heshan  
 Folic acid -- khub-sash  
 Follicle -- pi'haf  
 Foot -- ash'ya  
 Foramen -- sharu  
 Forearm -- ne-kar  
 Forebrain -- fa-shi'nahp  
 Forehead -- fa-patam  
 Fovea -- pi'razh  
 Fracture (n.) -- shaya  
 Fraternal twins -- dahsular s'natya-yu-murlar  
 Freckle -- pi'kur-shal  
 Frostbite -- le-suma-yontaya  
 Fructose -- savas-slor-tukh  
 Fundus -- nafek-nen  
 Furuncle -- pi'tak  
 Fusiform -- magu-shidik  
 Fusion -- nala-kaunshaya  
 Gall -- thel'a-zalu-masu  
 Gall bladder -- thel'a-zalu-nafek  
 Gamete -- vinik guv-nala  
 Gametocyte -- rivinik guv-nala  
 Gametogenesis -- guv-nala-storaya  
 Gamophobia -- kun-ut-pthak  
 Ganglion, Nerve -- weltra  
 Gangrene -- nalatra-yem-tevakh  
 Gas -- pa-tukh  
 Gas gangrene -- nalatra-yem-tevakh k'pa-tukh  
 Gastrectomy -- skaun-sa'haf-snem  
 Gastric -- skaun-sa'hafik  
 Gastric gland -- skaun-sa'haf-pi'nafek  
 Gastric juice -- skaun-sa'haf-masu  
 Gastric lavage -- skaun-sa'haf-pun  
 Gastric ulcer -- skaun-sa'haf-razhen  
 Gastrin -- dau-tukh t'skaun-sa'haf  
 Gastritis -- skaun-sa'haf-yonshaya  
 Gastroenteritis -- yonshaya t'neik-skaun-ek'ur  
 Gastroesophageal reflux -- pla'yumaya t'skaun-sa'haf-tuhllar  
 Gastrointestinal tract -- neik-skaun-ek'ur  
 Gavage -- mev-yeman

Gender -- guv  
 Gender identity -- guv-sha'es  
 Gene -- tol  
 General anesthesia -- ek'kashan-ne-meil  
 Genetic -- tolik  
 Genetic disease -- tolik has  
 Genetic engineering -- tol-mish-tal  
 Genetic marker -- tolik ulidek  
 Genitalia, External -- si-guv-kruslar  
 Genome -- tol-var  
 Genotype -- tol-ves  
 Germ -- talvot  
 Germ cell - guv-nala  
 Gestation -- sudef-wak  
 Gingiva -- zud-nalatra  
 Gingivitis -- zud-nalatra-yonshaya  
 Gland -- pi'nafek  
 Glaucoma -- bezhun-ne'hish-nosh  
 Glossalgia -- lahv-kusut  
 Glossitis -- lahv-yonshaya  
 Glottis -- spes-vel  
 Glucose -- nen-slor-tukh  
 Glucosuria -- ritsuri-nosh t'nen-slor-tukh svi'vazh  
 Gluteus -- pla'krus-dvunek  
 Glycosuria -- pid-nosh t'slor-tukh svi'vazh  
 Gonad -- guv-nafek  
 Gonadotropin -- dau-tukh t'guv-nafek  
 Gray matter -- zhai-nalatra  
 Greenstick fracture -- treshaya (or "treshau-shaya")  
 Groin -- neikah  
 Gross anatomy -- nen-vukhut-tal  
 Growth -- to'ovaya  
 Growth hormone -- to'ovau-dau-tukh  
 Gubernaculum -- pihlora-vel  
 Gullet -- yakul-mev  
 Gums (mouth) -- zud-wadi  
 Gynecologist -- ko-hassu  
 Habit(s) -- es'merka  
 Hair (single strand) -- isach  
 Hair (multiple) -- isachya  
 Hair follicle -- isach-kal  
 Hallux -- wuh'rak gof  
 Hand -- el'ru  
 Head -- patam  
 Headache -- patam-kusut  
 Healing -- hakaya  
 Health -- muhl'es  
 Hearing -- zhu  
 Heart -- khaf-spol  
 Heart attack -- khaf-spol-mahai  
 Heart chamber -- tvi-shal t'khaf-spol  
 Heart failure -- khaf-spol-vravshaya  
 Heart rate -- khaf-spol-tav

Heart valve -- khaf-spol-spunek  
 Heartbeat (rhythm) -- nel-dath t'khaf-spol  
 Heartburn -- skaun-yon  
 Heel -- timut  
 Hemangioma -- khaf-mev-gnal  
 Hematoma -- khaf-yarek  
 Hematuria -- vazh-khaf-nosh  
 Hemoglobin -- khaf-esh-meil  
 Hemolytic anemia -- ritsuri-nehaya-nosh t'khaf-meil  
 Hemophilia -- ritsuri-vihk-nosh  
 Hemorrhage -- khafaya  
 Hemostasis -- khafau-pehkaya  
 Hepatitis -- nehasamek-yonshaya  
 Hepatoma -- nehasamek-gnal  
 Hereditary -- samekhik  
 Hernia -- faka  
 Hiatus -- sharu  
 Hiccup (n.) -- huhk  
 Hip -- gaf  
 Hirsutism -- isach'es-nosh  
 Hormone -- dau-tukh  
 Horripilation -- isachya-shen  
 Humerus -- abru-kar-hinek  
 Hyaline cartilage -- nen-rihinek  
 Hydremia -- ritsuri-pid-tavat t'khaf-masu  
 Hydronephrosis -- ritsuri-masu-sa'ovaya t'kapol-nafek  
 Hydrophobia -- masu-pthak  
 Hyoid bone -- lahv-hinek  
 Hyperbaric chamber -- tvi-shal t'pid-sov-ne'hish  
 Hypercalcemia -- (ritsuri-)pid-nosh t'hinek-tukh svi'khaf  
 Hypercalciuria -- ritsuri-pid-nosh t'hinek-tukh svi'vazh  
 Hypercapnia -- pid-nosh t'dah-eshu t'nol-tukh svi'khaf  
 Hyperemia -- pid-shal-khaf  
 Hyperglycemia -- pid-nosh t'khaf-slor-tukh  
 Hyperkalemia -- (ritsuri-)pid-nosh t'spoh-tukh svi'khaf  
 Hypernatremia -- (ritsuri-)pid-nosh t'alem-tukh svi'khaf  
 Hypernea -- sahris-eshan  
 Hyperopia -- za-thakau-nosh  
 Hyperpigmentation -- ritsuri-pid-nosh t'wadi-kur  
 Hyperplasia -- pid-krus-storaya  
 Hyperpyrexia -- ritsuri-pid-nosh t'vukhut-falek'es  
 Hypertension -- pid-khaf-ne'hish  
 Hypertrophy -- krus-sukaya  
 Hyperventilation -- nuh'mau-eshan  
 Hypocalcemia -- (ritsuri-)neik-nosh t'hinek-tukh svi'khaf  
 Hypocapnia -- neik-nosh t'dah-eshu t'nol-tukh svi'khaf  
 Hypoglossal nerve -- vinem-lahv-wel  
 Hypoglycemia -- neik-nosh t'khaf-slor-tukh  
 Hypokalemia -- (ritsuri-)neik-nosh t'spoh-tukh svi'khaf  
 Hyponatremia -- (ritsuri-)neik-nosh t'alem-tukh svi'khaf  
 Hypopigmentation -- ritsuri-neik-nosh t'wadi-kur  
 Hypoplasia -- neik-krus-storaya  
 Hypospray -- pa-vipohtek

Hypotension -- neik-khaf-ne'hish  
 Hypothalamus -- is-lof-svitan  
 Hypoxia -- nuh'neik-esh-tukh svi'khaf  
 Hysterectomy -- sudef-snem  
 Ictus -- mahai  
 Identical twins -- dahsular s'ka-yu-mur  
 Identity -- sha'es  
 Iliac artery -- uzh-khaf-mev t'neik-vukhut  
 Iliac vein -- os-khaf-mev t'neik-vukhut  
 Immature (development) -- rivinik  
 Immune -- tefoshik  
 Immune response -- tefosh-kesaya  
 Immune system -- tefosh-torektra  
 Immunity -- tefosh'es  
 Implant (n.) -- vishitaya  
 Implant (v.) -- vishitau  
 Impregnate -- viyatau  
 In situ -- tvi-shitik  
 In utero -- tvi-sudefik  
 In vitro -- saha-velik  
 In vivo -- tvi-ha-velik  
 Incision -- nesh  
 Indolent -- vohris-storaya  
 Induration -- lerashaya  
 Infant -- kan-bu  
 Infarction -- tev-nalatra-storaya  
 Infection -- vivotaya  
 Infertile -- rikanashik  
 Inflammation -- yonshaya  
 Infusion -- vismashaya  
 Inguinal hernia -- neikah-faka  
 Inhalation -- vi'le-eshan  
 Inherent -- tvi-keshik  
 Injection -- vipohshaya  
 Injury -- dash  
 Inner ear -- tvi-kaluk  
 Inoculation -- vi-kasaya  
 Inoculum -- vi-kas  
 Inspiration -- vi'le-eshan  
 Insemination -- sa-neitaya  
 Insulin -- slor-dau-tukh  
 Integumentary system -- ek'wadi-torektra  
 Internal -- svi'udish  
 Internal injury -- tvi-dash  
 Internal organs -- tvi-nafeklar  
 Interstice -- tvi-stukh  
 Intestine -- pekh-mev  
 Intraosseous -- vihinekik  
 Intravasation -- vimevaya  
 Intravenous -- viosik  
 Involuntary -- shatipik  
 Iridocycus -- kurak-puv  
 Iridotomy -- kurak-sharushan

Iris -- kurak  
 Iritis -- kurak-yonshaya  
 Itch (n.) -- drizh  
 Itching -- drizhan  
 Jaundice -- kur-nosh t'thel'a-zalu-masu svi'khaf  
 Jaw -- ahs  
 Joint -- lesek  
 Juice -- samasu  
 Jugular vein -- os-khaf-mev t'talu  
 Kalemia -- spoh-tukh svi'khaf  
 Karyokinesis -- nala-dahsaya  
 Karyolymph -- nala-svitan-masu  
 Karyolysis -- nala-svitan-nehaya  
 Karyon -- nala-svitan  
 Karyotype -- toltra-besan  
 Keratalgia -- bezhun-wadi-kusut  
 Keratin -- si-ketek  
 Keratitis -- bezhun-wadi-yonshaya  
 Keratoderma -- stonn-wadi  
 Keratopathy -- bezhun-wadi-has  
 Keratorhexis -- bezhun-wadi-tres  
 Ketoacidosis -- nalesh-sash-nosh  
 Ketone -- nalesh(-tukh)  
 Ketone body -- nalesh-vel  
 Ketonemia -- ritsuri-pid-nosh t'nalesh-vellar svi'khaf  
 Ketonuria -- ritsuri-pid-nosh t'nalesh-vellar svi'vazh  
 Ketosis -- pid-nalesh-nosh  
 Kidney -- kapol-nafek  
 Kinetosis -- dvunel-has-mar  
 Knee -- mal-nef  
 Knee joint -- mal-nef-lesek  
 Kneecap -- mal-nef-hinek  
 Knuckle -- ozh-lesek  
 Kwashiorkor -- fam-ketek-has  
 Kyphosis -- tchorka-pla'dor(-nosh)  
 Laceration -- nesh  
 Lacrimal duct -- bezhun-masu-mev  
 Lacrimal gland -- bezhun-masu-pi'nafek  
 Lacrimal sac -- bezhun-masu-sa'haf  
 Lacrimation -- bezhun-mashaya  
 Lactase -- thas-skaun-zalu  
 Lactation -- thasaya  
 Lactiferous duct -- thas-mev  
 Lactose -- thas-slor-tukh  
 Laparocoele -- feshek-faka  
 Laparoscope -- feshek-zan-vel  
 Laparotomy -- feshek-sharushan  
 Laryngitis -- shi'spes-yonshaya  
 Laryngopharynx -- neik-drahk  
 Larynx -- shi'spes  
 Leg -- mal  
 Lens, Eye -- gelek  
 Lesion -- sval

Leukocyte -- wan-khaf-nala  
 Leukoplakia -- wan-shal-bosh t'nala-tin  
 Leukotrichia -- wan-isachya-bosh  
 Levator -- ashenek  
 Ligament -- hinek-tersayek  
 Limb -- sikrus  
 Limbic system -- zherka-torektra  
 Lip -- bru  
 Lipemia -- pid-thel'a-nosh svi'khaf  
 Lipoma -- thel'upik gnal  
 Lipoprotein -- thel'a-ketek  
 Liposarcoma -- thel'a-nala-rasahtra  
 Lithiasis -- nafek-kov-torvaya  
 Lithuresis -- kov-vazhaya  
 Liver -- nehasamek, nehasamau-nafek  
 Lobe -- shal-kal  
 Lumbago -- ne-pla'dor-kusut  
 Lumbar nerve -- ne-pla'dor-wel  
 Lumbar vertebra -- ne-pla'dor-hinek  
 Lump -- vihk  
 Lung -- eshaf (contraction of "esh-sa'haf")  
 Lymph -- yak(-masu)  
 Lymph node -- yak-kal  
 Lymph vessel -- yak-mev  
 Lymphangioma -- yak-mev-gnal  
 Lymphoblast -- rivinik yak-nala  
 Lymphocyte -- yak-nala  
 Lymphoma -- yak-gnal  
 Lymphopoiesis -- yak-torvaya  
 Lysosome -- skaun-pi'vel  
 Macrophage -- suk'yokul-nala  
 Mala -- nak-hinek  
 Male (adj.) -- satik  
 Male (n.) -- sa  
 Malignant -- tevrasahkos  
 Mammary gland -- thas-pi'nafek  
 Mandible -- neik-ahs(-hinek)  
 Maturation -- vin  
 Maturity -- vin'es  
 Maxilla -- abru-ahs(-hinek)  
 Meatus -- ur  
 Medication -- haseret  
 Medulla oblongata -- is-lof-svitan  
 Meiosis -- ulef-nala-dahsaya  
 Melanin -- mu-kur-tukh  
 Melanocyte -- mu-kur-nala  
 Melanoma -- wadi-rasahtra t'mu-kur-nalalar  
 Membrane -- nala-tin  
 Memory -- vokaya  
 Metabolism -- di'kish-torek  
 Metacarpus -- svitan-el'ru-hinek  
 Metatarsus -- svitan-ash'ya-hinek  
 Metroptosis -- sudef-set

Microorganism -- numo-ha-vel  
 Microsurgery -- numo-sharushan  
 Middle ear -- svitan-kaluk  
 Milk -- thas  
 Mitochondrion -- nala-tepul-vel  
 Mitosis -- ek'nala-dahsaya  
 Molar -- nal-zud  
 Monozygotic twins -- dahsular s'ka-yu-mur  
 Morula -- ten-nala-dukak  
 Motion -- dvunel  
 Mouth -- ru'lut  
 Movement -- dvun  
 Mucous membrane -- prash-nala-tin  
 Mucus -- prash  
 Muscle -- dvunek  
 Myalgia -- dvunek-kusut  
 Myocardial infarction -- shal-tevakh t'khaf-spol-dvunek  
 Myocardium -- svitan-tin t'khaf-spol  
 Myoglobin -- dvunek-esh-meil  
 Myonecrosis -- dvunek-nala-tevakh  
 Myopia -- fa-thakau-nosh  
 Myosarcoma -- dvunek-rasahtra  
 Myositis -- dvunek-yonshaya  
 Nail -- felu  
 Nares, Anterior -- han-sharular  
 Nasal cavity -- han-tauk  
 Nasal septum -- han-temok  
 Nasal sinus -- han-pi'tauk  
 Nasolacrimal duct -- han-bezhun-mev  
 Nasopharynx -- han-drahk  
 Nates -- pla'kruslar  
 Nausea -- slakh  
 Navel -- kesazh  
 Neck -- talu  
 Necrosis -- nalatra-tevakh  
 Neonatal -- uzh-keshtik  
 Neonate -- Uzh-keshtu  
 Neoplasm -- uzh-rasahtra  
 Nephralgia -- kapol-nafek-kusut  
 Nephritis -- kapol-nafek-yonshaya  
 Nephrolith -- kapol-nafek-kov  
 Nerve -- wel  
 Neural transponder -- wel-vavayek  
 Neuralgia -- wel-kusut  
 Neuritis -- wel-yonshaya  
 Neuroepithelium -- wel-wein-nalatra  
 Neurogenesis -- wel-storaya  
 Neurohormone -- wel-dau-tukh  
 Neurohumor -- wel-nala-meil  
 Neurotransmitter -- wel-sasayek  
 Neuron -- wel-nala  
 Neurotoxin -- wel-hasam  
 Neurotransmitter -- wel-sasau-meil

Nevus -- kesh-kuraya  
 Newborn (child) -- Uzh-keshtu  
 Nidation -- yu-mur-vishitaya  
 Night blindness -- mu'gel-glan-fam'es  
 Nightmare -- yuk-eshu'a  
 Nipple -- thasek-gonaf  
 Nocturia -- yuk-vazhaya  
 Node -- kal  
 Normotension -- tsuri-khaf-ne'hish  
 Nose -- han  
 Nosebleed -- han-khafaya  
 Nostrils -- han-sharular  
 Notochord -- fu-pla'hinek-zehl  
 Nucha -- talu-pla'dor  
 Numbness -- rikashan'es  
 Nutrient -- yem-tanek  
 Nyctalopia -- mu'gel-glan-fam'es  
 Nyctophobia -- mu'yor-pthak  
 Nycturia -- yuk-vazhaya  
 Nymphomania -- riko-guv-aitlun  
 Obese -- thel'anik  
 Obesity -- thel'an'es  
 Obsession -- ritsuri-wuh-set'ko  
 Obstetrician -- ko-kesh-hassu  
 Obstruction -- klotaya  
 Occipital bone -- patam-pla'dor-hinek  
 Occiput -- patam-pla'dor  
 Occupational disease -- ar'kada-has  
 Oculomotor nerve -- bezhun-dvun-wel  
 Oculus -- bezhun  
 Oculus dexter (OD) -- gas-bezhun  
 Oculus sinister (OS) -- los-bezhun  
 Odontalgia -- zud-kusut  
 Odontiasis -- zudaya  
 Odor -- vil  
 Odynophagia -- yontau-vinem-kusut  
 Ointment -- elmuvak  
 Olfaction -- fnish-kash-ral  
 Olfactory center -- fnish-svitan  
 Olfactory nerve -- fnish-wel  
 Oligodactyly -- ten-uklar-nosh  
 Oligodipsia -- ten-mag-nosh  
 Oligodontia -- ten-zudlar-nosh  
 Oliguria -- ten-vazh-torvaya  
 Omphalus -- kesazh  
 Onycholysis -- felu-dahshaya  
 Onychosis -- felu-has  
 Onyxia -- tvi-felu(-nosh)  
 Oogenesis -- yu-mur-storaya  
 Oophorectomy -- yukal-snem  
 Oophoritis -- yukal-yonshaya  
 Oozing -- stan  
 Opening -- sharu



Ophthalmectomy -- bezhun-snem  
 Ophthalmoplegia -- bezhun-shivaya  
 Ophthalmoscope -- bezhun-zan-vel  
 Oponin -- keful-tukh  
 Oponization -- kefulaya  
 Optic nerve -- glan-wel  
 Orbit -- bezhun-razh  
 Orchidalgia -- sakal-kusut  
 Orchiectomy -- sakal-snem  
 Orchidoptosis -- neik-sakal-nosh  
 Orchiopexy -- sakal-ne-sharushan  
 Orchis -- sakal  
 Orchitis -- sakal-yonshaya  
 Orexigenic -- yeht-avon-ashenauk  
 Organ -- nafek  
 Orifice -- sharu  
 Oropharynx -- ru'lut-drahk  
 Orthopnea -- abruven-esh-nosh  
 Orthostatic -- yeht-lamanik  
 Os -- hinek  
 Oscheocele -- sakal-haf-puv  
 Osculum -- pi'sharu  
 Osseous -- hinekik  
 Ossicle -- pi'hinek  
 Ossification -- hinekaya  
 Osteitis -- hinek-yonshaya  
 Osteoblast -- hinek-storau-nala  
 Osteocampsia -- hinek-vulau-nosh  
 Osteochondroma -- hinek-rihinek-gnal  
 Osteocyte -- hinek-nala  
 Osteolysis -- hinek-vashau-nosh  
 Osteoma -- hinek-gnal  
 Osteopetrosis -- kinek-kov-nosh  
 Osteoporosis -- hinek-pak-nosh  
 Osteoregenerator -- hinek-vaferek  
 Osteosarcoma -- hinek-rasahtra  
 Osteosclerosis -- hinek-ihn-nosh  
 Ostium -- sharu  
 Ostomy -- sharutaya  
 Otalgia -- kaluk-kusut  
 Otitis -- kaluk-yonshaya  
 Otorrhea -- kaluk-khrasaya  
 Otosclerosis -- tvi-kaluk-hinekaya  
 Otoscope -- kaluk-zan-vel  
 Ovarian cancer -- yukal-rasahtra  
 Ovarian cyst -- yukal-masu-haf  
 Ovariectomy -- yukal-snem  
 Ovary -- yukal  
 Oviduct -- yu-mur-mev  
 Ovotestis -- on-guv-nafek  
 Ovulation -- yukaya  
 Ovum -- yu-mur  
 Oxygenation -- esh-tukhaya

Oxyopia -- maut-zat-glan  
 Pachycheilia -- bali-bru-nosh  
 Pachyderma -- bali-wadi-nosh  
 Pain -- kusut  
 Palate -- ru'lut-kamu  
 Palilalia -- zhit-ashiv-nosh  
 Palliative -- vasek  
 Pallor -- ritsuri-spoh'es  
 Palm -- ku  
 Pancarditis -- ek'khaf-spol-yonshaya  
 Pancreas -- zalu-nafek  
 Pancreatectomy -- zalu-nafek-snem  
 Pancreatic duct -- zalu-nafek-mev  
 Pancreatic juice -- zalu-nafek-masu  
 Pancreatitis -- zalu-nafek-yonshaya  
 Pandemic -- suk'shal-has-sak  
 Pandiculation -- luvau-sakadaya  
 Panhysterectomy -- ek'sudef-snem  
 Panic (n.) -- pahth  
 Paracentesis -- snem-masu-nisan  
 Paralysis -- shivaya  
 Parametritis -- pa-sudef-yonshaya  
 Paranoia -- ek'pa-pthak  
 Paraparesis -- on-mal-kobat'es  
 Paraplegia -- dah-shivaya  
 Parenchyma -- nafek-is-krus  
 Paresis -- ul-shivaya  
 Parturition -- keshtan  
 Passive -- ritorupik  
 Patella -- mal-nef-hinek  
 Patellar reflex -- mal-nef-tvisek  
 Patient -- hasausu  
 Pectinate -- dref-shidik  
 Pelage -- ek'isachya  
 Pelvis -- dafel  
 Penis -- lok  
 Perforation -- tilaya  
 Perilymph -- kaluk-yak  
 Periosteum -- hinek-nalatra-wein  
 Periostitis -- yonshaya t'hinek-nalatra-wein  
 Peristalsis -- mev-spal-dvun  
 Peritoneum -- feshek-nalatra-tin  
 Peritonitis -- yonshaya t'feshek-nalatra-tin  
 Personality -- nafu'es  
 Pes -- ash'ya  
 Phagocyte -- yokul-nala  
 Phalanges -- uk-hineklar  
 Phalluncus -- lok-gnal  
 Phallus -- lok  
 Pharyngitis -- drahk-yonshaya  
 Pharyngodynia -- drahk-kusut  
 Pharynx -- drahk  
 Phlebangioma -- puv-haf t'os-khaf-mev

Phlebectomy -- snem t'os-khaf-mev  
 Phlebitis -- yonshaya t'os-khaf-mev  
 Phlebotomy -- tu'asha t'os-khaf-mev  
 Phlegm -- esh-prash  
 Photalgia -- ugel'es-bezhun-kusut  
 Phrenic nerve -- esh-dvunek-wel  
 Physician -- hassu  
 Pica -- riyem-yokul-nosh  
 Pigment -- kurek  
 Pilosis -- pid-storau-nosh t'isachya  
 Pilus -- isach  
 Pineal gland -- sofar-pi'nafek  
 Pinna -- si-kaluk  
 Pituitary gland -- dau-tukh-pi'nafek  
 Placebo -- katak  
 Placebo effect -- katak-daya  
 Placenta -- flutash  
 Plantar reflex -- lad-tvisek  
 Plasma -- bosh-khaf-masu  
 Plasma cell -- khaf-masu-nala  
 Plasma protein -- khaf-masu-ketek  
 Plasmacytoma -- rasahtra t'khaf-masu-nalalar  
 Platelet -- vihk-nala  
 Plethora -- masu-mau-tan  
 Pleura -- tuf-nala-tin  
 Pleurisy -- yonshaya t'tuf-nala-tin  
 Plica -- (nalatra-)heshan  
 Pneumonectomy -- eshaf-snem  
 Pneumonia -- eshaf-yonshaya  
 Poison -- gisam  
 Pons -- mesut  
 Pore -- wadi-sharu  
 Postmature infant -- tab-kan-bu  
 Postoperative -- po-sharushanik  
 Postpartum -- po-keshtaik  
 Prasema (Vulcan "erythema") -- wadi-yar'es s'pi'khaf-mev-eikan  
 Praseoblast (Vulcan "erythroblast") -- rivinik khaf-nala  
 Praseocyte ("green blood cell") -- nen-khaf-nala  
 Praseoderma -- (Vulcan "erythroderma") -- wadi-yar'es-nosh  
 Praseopenia (Vulcan "erythropeia") -- fam-nosahp'es t'nen-khaf-nalalar  
 Praseopoiesis -- (Vulcan "erythropeiosis") -- torvaya t'nen-khaf-nalalar  
 Precancerous -- fe-rasahtraik  
 Precocious -- ten-storauk  
 Pregnancy -- k'kan'es  
 Pregnant -- k'kan  
 Premature -- fe-wakik  
 Premature ejaculation -- ten-khrasaya  
 Premature infant -- ten-kan-bu  
 Prenatal -- fe-keshtaik  
 Preoperative -- fe-sharushanik  
 Preprandial -- fe-yemik  
 Prepuberty -- fe-vin-storaya  
 Pressure -- ne'hish

Pressure point -- ne'hish-sfek  
 Priapism -- kwon-abrun-nosh  
 Proctitis -- pekh-vat-yonshaya  
 Proctoscope -- (tvi-)zan-vel t'pekh-vat  
 Progeria -- ten-shakhuvau-nosh  
 Prolapse -- nafek-set  
 Prostate -- pi'nafek t'sa-nei-masu  
 Protein -- ketek  
 Pruritis -- drizhaya  
 Puberty -- vin-storaya  
 Pudendum -- si-guv-krus  
 Pulmonary artery -- eshik vi-khaf-mev  
 Pulmonary edema -- ritsuri-masu-hoknaya t'eshaf  
 Pulmonary embolism -- eshaf-mev-klotaya  
 Pulmonary vein -- eshik sa-khaf-mev  
 Pulsation -- gaya  
 Pulse -- khaf-spol-gaya  
 Pupil -- glan-sharu  
 Pupillary reflex -- glan-sharu-tvisek  
 Pus -- kuhku  
 Pustule -- kuhku-kad  
 Pyemia -- kuhku-khaf-gisaman  
 Pyrophobia -- yon-pthak  
 Pyrosis -- skaun-yon  
 Quadriplegia -- keh-shivaya  
 Quadruplet -- t'kehsu  
 Quintuplet -- t'kausu  
 Radiation sickness -- saya-has-mar  
 Radicle -- wel-gir  
 Radiculitis -- wel-gir-yonshaya  
 Radius (bone) -- sik ne-kar-hinek  
 Range of motion -- dvunel-eik'es  
 Raphe -- fenul  
 Rash -- kuriht  
 Recessive gene -- za-tol  
 Rectum -- pekh-vat  
 Reflex -- tvisek  
 Reflux -- (ritsuri-)pla'yumaya  
 Regulatory gene -- pakhartau-tol  
 Reproduction -- kanashivaya  
 Resection -- krus-snem  
 Respiration -- pa'kizh  
 Respiratory arrest -- pa'kizh-pekhaya  
 Respiratory failure -- pa'kizh-vravshaya  
 Respiratory rate -- pa'kizh-tav  
 Respiratory tract -- pa'kizh-ek'ur  
 Reticulum -- vistra  
 Retina -- glan-nalatra-tin  
 Retinitis -- glan-nalatra-yonshaya  
 Rhinitis -- han-yonshaya  
 Rhinorrhea -- han-yumaya  
 Rib -- bak  
 Saccule -- pi'sa'haf

Sacral vertebra -- pla'krus-hinek  
 Saliva -- ru'lut-masu  
 Salivary gland -- ru'lut-masu-pi'nafek  
 Salpinx -- mev  
 Salt depletion -- alem-sis  
 Sarcoid -- kahmtraik  
 Sarcoma -- kahm-rasahtra  
 Satyriasis -- risa-guv-aitlun  
 Scab -- net  
 Scalp -- patam-ek'wadi  
 Scapula -- tipan-hinek  
 Scar -- ulidar  
 Sciatic nerve -- nen-mal-wel  
 Sclera -- bezhun-wan  
 Sclerosis -- lerash-nalatra-nosh  
 Scrotum -- sakal-sa'haf  
 Sebaceous cyst -- wadi-thel'asu-shaf  
 Sebaceous gland -- wadi-thel'asu-pi'nafek  
 Sebum -- wadi-thel'asu  
 Seizure -- mahai  
 Semen -- sa-nei-masu  
 Seminal vesicle -- pi'nafek t'sa-nei-masu  
 Seminiferous tubule -- sa-nei-pi'mev  
 Sensation -- kashan  
 Sense -- kash-ral  
 Sensory nerve -- kash-ral-wel  
 Septicemia -- khaf-gisaman  
 Serum -- nen-khaf-masu  
 Sesamoid bone -- mal-nef-hinek  
 Sex (gender) -- guv  
 Sex chromosome -- guv-toltra  
 Sex hormone -- guv-dau-tukh  
 Sexual -- guvik  
 Shin -- ne-mal  
 Shin bone -- ne-mal-hinek  
 Shock (n.) -- kolaya  
 Short -- pen  
 Shoulder blade -- tipan-hinek  
 Sickness -- has-mar  
 Sight -- glan  
 Sinew -- dvunek-tersayek  
 Skeletal muscle -- hinek-(teraya-)dvunek  
 Skeleton -- hinek-teraya  
 Skin -- wadi  
 Skin cancer -- wadi-rasahtra  
 Skull -- grat  
 Smooth muscle -- shati-dvunek  
 Sneeze (n.) -- uhfuk  
 Sole (foot) -- lad  
 Somatic cell -- vukhut-nala  
 Sore (n.) -- sival  
 Spermatogenesis -- sa-nei-storaya  
 Spermatozoon -- sa-nei

Spinal canal -- plat-ur  
 Spinal column -- plat  
 Spinal cord -- plat-wel-elakh  
 Spinal nerve -- plat-wel  
 Spine -- plat  
 Spleen -- khaf-nafek  
 Splenectomy -- khaf-nafek-snem  
 Splenitis -- khaf-nafek-yonshaya  
 Sprain (n.) -- nauk  
 Stance -- laman  
 Stenosis -- ritsuri-wonilaun  
 Sternum -- tuf-hinek  
 Stimulant -- kastorilayek  
 Stimulus -- kastoran  
 Stoma -- skonn-sharu  
 Stomach, First -- wuh'rak skaun-sa'haf  
 Stomach, Second -- dah'rak skaun-sa'haf  
 Strabismus -- rizehlik bezhun-nosh  
 Strain (n.) -- his  
 Stratum -- tin  
 Stress (n.) -- hishel  
 Striated muscle -- slah-dvunek  
 Stricture -- mev-wonilaun  
 Stroke (n.) -- shad-kisheya  
 Subcutaneous -- ne-wadiyik  
 Surgeon -- sharushsu  
 Surgery -- sharushan  
 Suture (material) -- terog-elakh  
 Suture (seam) -- fenul  
 Suture (stitch) -- terog  
 Suture (v.) -- terog-tor  
 Swelling (n.) -- puv  
 Syndrome -- kath-vuk  
 Synovial fluid -- lesek-masu  
 Synovial joint -- el-lesek  
 Synovial membrane -- nalatra-tin t'el-lesek  
 Syringe -- vipohtek  
 System -- torektra  
 Systemic -- ek'vukhulik  
 Tachycardia -- sahri-threshan-nosh t'khaf-spol-tav  
 Tachypnea -- sahri-threshan-eshan  
 Tail (n.) -- harr  
 Tall -- ha-vol  
 Talus -- mal-nik-hinek  
 Tarsal gland -- bezhun-wein-pi'nafek  
 Taste -- zahvan  
 Taste bud -- zahvek  
 Tear(s) -- bezhun-masu  
 Tear duct -- bezhun-masu-mev  
 Teething -- zudaya  
 Telepathy -- kwi-kashtan  
 Temperature -- falek'es  
 Tendon -- dvunek-tersayek

Tendonitis -- dvunek-tersayek-yonshaya  
 Tenodynia -- dvunek-tersayek-kusut  
 Testicular cancer -- sakal-rasahtra  
 Testis -- sakal  
 Testosterone -- sa-dau-tukh  
 Thalamus -- zhaitra  
 Thelarche -- thasek-storau-palikaya  
 Therapy -- ben-gun  
 Thermalgesia -- safalek-kusut(-nosh)  
 Thigh -- abru-mal  
 Thirst -- mag  
 Thoracic medicine -- tuf-has-tal  
 Thoracic nerve -- tuf-wel  
 Thoracic vertebra -- tuf-hinek (or "abru-pla'dor-hinek")  
 Thoracocentesis -- tuf-masu-nisan  
 Thorax -- tuf  
 Throat -- drahk  
 Throb(bing) -- gaya  
 Thrombectomy -- khaf-vihk-snem  
 Thrombocyte -- vihk-nala  
 Thrombocytopenia -- fam-nosh t'vihk-nalalar  
 Thrombocytosis -- wehk-nosh t'vihk-nalalar  
 Thrombus -- shi-klotau-vel  
 Thymus -- tuf-pi'nafek  
 Thyroid gland -- drahk-pi'nafek  
 Tibia -- ne-mal-hinek  
 Tinnitus -- kaluk-kusan  
 Tissue -- nalatra  
 Toe -- gof  
 Tongue -- lahv  
 Tooth -- zud  
 Toxin -- hasam  
 Trachea -- esh-mev  
 Tracheotomy/Tracheostomy -- esh-mev-tu'ashan  
 Tract -- ek'ur  
 Transfusion -- khaf-vitanan  
 Transplant (n.) -- va'prahik krus  
 Transplant (v.) -- va'prah (krus)  
 Trauma -- khreya  
 Triplet -- t'rehsu  
 Tumor -- gnal  
 Twin -- t'dahsu  
 Tympanic membrane -- zhu-nalatra-tin  
 Ulcer -- razhen  
 Ulemorrhagia -- zud-wadi-khafaya  
 Ulitis -- zud-wadi-yonshaya  
 Ulna -- tvik ne-kar-hinek  
 Umbilical cord -- tersau-elakh  
 Umbilicus -- kesazh  
 Unction -- elmuvak  
 Unguis -- felu  
 Ureter -- kapol-nafek-mev  
 Urethra -- vazh-mev

Urethritis -- vazh-mev-yonshaya  
Urethropraxis -- vazh-mev-klotaya  
Urinate -- vazhau  
Urination -- vazhaya  
Urine -- vazh  
Urodynia -- vazhau-kusut(-nosh)  
Uterus -- sudef  
Vaccinate -- ro-kasau  
Vaccination -- ro-kasaya  
Vaccine -- ro-kas  
Vagina -- keshtan-ur  
Vaginitis -- keshtan-ur-yonshaya  
Valve -- spunek  
Vas deferens -- suk'sa-nei-mev  
Vascular -- khaf-mevik  
Vasculitis -- khaf-mev-yonshaya  
Vein -- os-khaf-mev  
Venom -- uksam  
Vertebra -- plat-hinek  
Vertebral column -- plat  
Vessel -- mev  
Vocal cord -- spesek  
Voluntary -- toripik  
Voluntary muscle -- tash-dvunek  
Vulva -- kotik si-guv-kruslar  
Waist -- san  
Wart -- gakh  
Weakness -- kobat'es  
Whole blood -- ek'khaf  
Wound -- skek  
Wrist -- kar-nik  
Yawning -- luvaya  
Zoophobia -- aushfa-ptak  
Zygomatic bone -- nak-hinek  
Zygote -- sto-yu-mur



## **Biology, Botany & Zoology**

### **Ha-tal – Kastik-tal heh Aushfa-tal**

The plant and animal life of Vulcan (T'Khasi) is not nearly as diverse as that of many other Class M planets because of the severe environmental conditions on the planet. This does not mean the planet is a barren desert, despite that erroneous belief by many Federation citizens. Especially in the polar regions and around scattered sources of water, including several mid-latitude seas, life forms are quite plentiful. Only in the vast deserts and volcanic regions is life relatively scarce, and even there life has found a way to adapt and survive. In the future, we will add more information on some of the plant and animal life on the planet T'Khasi.

#### **A few examples of Vulcan animal life:**

Aluk -- fish (the general term)  
 Dzharel -- "jarel", a pony-like horned animal  
 Haurok -- a type of bird  
 Hayalit -- a small burrowing animal  
 K'nurt -- a rabbit-like rodent  
 Kenel -- an extinct horse-like animal  
 Krin-tu -- "krinti", an extinct wolf-like animal  
 Kushel -- bird (the general term)  
 Lanka-gar -- "la-nka'gar", a nocturnal predatory bird  
 Lara -- a desert bird  
 Le-matya -- a large, venomous desert predator  
 Mor-gril -- a wolverine-like animal  
 Nor-sehlat -- "norsehlat", larger, predatory sehlat relative  
 Oluhk -- snake (the general term)  
 Ravot -- insect (the general term)  
 Ron-tu -- an extinct dog-like animal, was domesticated as a pet  
 Sehlat -- a bear-like animal, often domesticated as a pet  
 Shavokh -- a large vulture-like bird  
 Starok -- a bat-like animal  
 Tchakarya -- "chkariya", a small, ferret-like predator  
 Tchorka -- "chorka", an extinct camel-like animal  
 Teresh-kah -- "te-resh-kah", the Vulcan "silver-bird"  
 Ukraluk -- reptile (the general term)  
 Valit -- a burrowing animal  
 Vralt -- an animal similar to a mountain goat

#### **A few examples of Vulcan plant life:**

Alem-vedik -- "salt weed", a desert bush used as a source of salt  
 Chakh -- "chakh", an edible plant  
 D'mallu -- large, carnivorous plant  
 Dun-yar -- "paper grass", traditional source used to make a papyrus-like paper  
 Elmin'lak -- oil-bearing plant; its oil is used in traditional oil lamps  
 Fek-kastik -- "post plant", woody plant whose straight stocks were once used in construction  
 Fnash-vedik -- "sweep weed", grass-like plant once used in making brooms  
 Fori -- a type of vegetable  
 Haniwah -- a seed-bearing plant  
 Hirat -- a grape-like plant

Huhsh-vedik -- "cough weed", a mildly poisonous plant that causes coughing fits if ingested  
 Indukah -- "in-du-ka", a red-leafed tree found near water  
 Ka-ran-zhi -- "ka-ranj-i", a cactus-like plant  
 Kasa -- a type of fruit  
 Kastik -- plant (the general term)  
 Khara -- a desert bush with an edible pulp  
 Kheh -- a type of grain  
 Kras -- a common plant  
 Kur-kastik -- "color plant", a plant used to make clothing dyes in ancient times  
 Kusut-vedik -- "pain weed", a plant whose juice was used to ease pain in ancient times  
 Lap -- tree (the general term)  
 Li'pon -- a wood-bearing plant  
 Lipau-yar -- "knife grass", a sharp-edged grass found near water  
 Mashya -- a tuberous vegetable  
 Mevak -- a hollow-stemmed reed-like plant  
 Mut -- a wheat-like grain  
 Pla-savas -- "blue fruit", a sweet blue to black-colored fruit  
 Plomik -- "plomeek", a type of vegetable often made into soup  
 Sash-savas -- "acid fruit", a strong, citrus-like, oblong fruit  
 Savas -- fruit (the general term)  
 Sazh -- vegetable (the general term)  
 Shaforr -- a type of tree (known as "Eridanian teak" to non-Vulcans)  
 Sherkhah -- a wood-bearing plant  
 Theris -- a Vulcan herb, often made into tea  
 Van-vedik -- "ore weed", plant that only grows where there is iron in the soil  
 Vedik -- weed (the general term)  
 Waneti -- flowering plant with tiny white blossoms  
 Wun-kas-elakh -- "weapon vine", a creeper used to make the ahn-wun in ancient times  
 Yar -- grass  
 Yelas -- "sun plant", a flowering plant with goldenrod-colored blossoms  
 Yon-savas -- "fire fruit", a strongly flavored yellow to red-colored fruit

### **Examples of Golic Vulcan biological, botanical and zoological terms:**

Abcission -- ha-snem  
 Absorption -- tvi-seshaya  
 Accessory pigment -- gol-kurek  
 Accidental species -- kish-koshtri  
 Acetic acid -- sfith-masu-sash  
 Acicular -- lumik  
 Acid soil -- sash-solek  
 Acidic dye -- sash-kur-tukh  
 Acidophilic -- sash-ashauk  
 Acquired characteristics -- prah-noshtralar  
 Actinomorphic -- halek-shidik  
 Actinomycete -- halek-talvot  
 Activator -- torai-vel  
 Active transport -- torupik nalatra-ifis  
 Acuminate -- sfekik  
 Adaptation -- rubilaya

Adaptive breakthrough -- rubilau-sastoraya  
 Adaptive radiation -- rubilau-saya  
 Adaptive zone -- rubilau-shal  
 Adsorption -- fiterpaya  
 Aerobe -- sov-ha-vel  
 Aerobic -- sov-ladik  
 Afforestation -- laptra-storaya  
 Agriculture -- urokasaya  
 Albino -- fam-kursu  
 Albumin -- tesihk  
 Alcohol -- naliveh  
 Alga -- smol  
 Algal bloom -- smol-sposhan  
 Allele -- tol-shid  
 Allelomorph -- tol-shid  
 Amino acid -- sash t'ha-torek  
 Anaerobic -- risov-ladik  
 Anaphase -- toltra-dahsya  
 Androecious -- sa-gohik  
 Androecium -- sa-svai-krus  
 Anemophily -- k'salan-vikantaya  
 Angiosperm -- wein-nei-kastik  
 Animal (n.) -- aushfa  
 Annual -- wuh-tevunik  
 Anther -- lesh-patam t'kas-sa-nei  
 Antheridium -- sa-guv-nafek t'ek'os-kastiklar  
 Antherocyte -- rivinik kas-sa-nei t'ek'os-kastiklar  
 Antherozoid -- kas-sa-nei t'ek'os-kastiklar  
 Anthesis -- svai-tu'ashya-wak  
 Anthocyanin -- yar-gahv-kurek  
 Aplanate -- pa'ashtrupik  
 Apomorphic -- stor-shidik  
 Aquatic -- masu-hatik  
 Archegonium -- ko-guv-nafek t'ek'os-kastiklar  
 Arid -- maut-pseth  
 Ascorbic acid -- nen-savas-sash  
 Asexual -- riguvik  
 Asexual reproduction -- riguvik kanashivaya  
 Assimilation -- vi-nem  
 Association -- katravek  
 Assortative mating -- ka-ves-katelaya  
 Autosome -- riguv-toltra  
 Auxin -- wu-dau-tukh  
 Axenic -- riakan  
 Axil -- fek-tersau-vul  
 Axile -- svitan-fekik  
 Axis -- svitan-fek  
 Bacillus -- fek-talvot  
 Back mutation -- za-tselaya  
 Backshore -- pid-shahov  
 Backswamp -- ne-flash  
 Bacteria -- talvot  
 Balanced polymorphism -- kau-mau-shidan

Bark -- lap-wadi  
 Basal body -- nen-vukhut  
 Basic grassland -- sovash-yartra  
 Basophilic -- sovash-ashauk  
 Baumgrenze -- lap-ek'zehl  
 Beach cusp -- dah-stonn-pi'sef (t'shahov)  
 Benthic zone -- glu-masu-shal  
 Benthos -- ha-vellar t'masu-lan-tol  
 Berry -- nei-savas  
 Bicentric distribution -- dah-svitan-shitaya  
 Biennial -- dah-tevunik  
 Bifid -- dah-krusik  
 Binary fission -- ek'dahsaya  
 Biodiversity -- ha-don-ka'es  
 Biogenic -- ha-torvauk  
 Biogeographical barrier -- ha-solektra-foshek  
 Biogeographical region -- ha-solektra-shal  
 Biogeography -- ha-solektra-tal  
 Bioluminescence -- ha-ha'tanaya  
 Biomass -- hatra  
 Biome -- ha-kas-shal  
 Biospecies -- k'wuhl-koshtri  
 Biosynthesis -- ha-fereikan  
 Biotic -- hatik  
 Biotic association -- ha-katravek  
 Biotic factor -- ha-klai  
 Biotopographic -- ha-solektra-shidik  
 Biotroph -- sakasu-nalatra-neshuhk  
 Biotype -- ha-ves  
 Biozone -- wak-ha-shal  
 Bipinnate -- dah-patik  
 Bisexual -- dah-guvik  
 Bladder (botany) -- sa'haf  
 Blanket bog -- pa'ash-flasikh  
 Blight -- luk-has  
 Bloom (n.) -- svai; sposhan  
 Bloom (v.) -- svai-tor  
 Blooming -- svai-tu'ashya  
 Bog -- flasikh  
 Bole -- lap-fek  
 Boreal climate -- pid-samek-ek'nosh  
 Boreal forest -- pid-samek-laptra  
 Brackish -- krus-alem-masupik  
 Branch -- gel  
 Breed (n.) -- kosh-ves  
 Broad-leaf -- eik-mor-kastik, eik-mor-lap  
 Broad-leaved -- eik-morik  
 Broad-leaved deciduous forest -- eik-morik set-mor-laptra  
 Broad-leaved evergreen forest -- eik-morik kwon-mor-laptra  
 Bud (flower only) -- svai-mur  
 Bud (leaf, stem, etc.) -- krus-mur  
 Buffer -- fukat  
 Bulb -- kas-mur

Calyx -- svai-mortra  
Cambium -- to'ovau-tin t'lap-vukhut  
Campanulate -- kus-vakh-shidik  
Canopy -- lap-wein-tin  
Capillary action -- solek-pi'mev-torai  
Capillary moisture -- solek-pi'mev-masu'es  
Carotene -- kas-zhar-kurek  
Carpel -- kas-ko-krus  
Caryopsis -- yartik-savas  
Cell -- nala  
Cell culture -- nala-litra  
Cell cycle -- nala-da-nel  
Cell differentiation -- nala-natyantek  
Cell fusion -- nala-kaunshaya  
Cell growth -- nala-to'ovaya  
Cell membrane -- nala-wein  
Cell wall -- nala-temok  
Cellular -- nalatik  
Cellulose -- nen-kas-tukh  
Centrifuge -- dahshayek  
Centromere -- toltra-tersau-vel  
Chernozem -- nesh-solek  
Chitin -- yol  
Chlorophyll -- kas-yar-kurek  
Chromatid -- toltra-kan  
Chromatin -- toltra-tukh  
Chromosome -- toltra  
Chromosome map -- toltra-besan  
Cilium -- nala-isach  
Circumnutation -- kulan-to'ovaya  
Climax tropical rain forest -- os-masu-laptra  
Clod -- solek-vihk  
Closed canopy -- ikap-lap-wein  
Cloud forest -- wan-vok-laptra  
Coccolith -- guv-smol-mathra  
Coccus -- dukal-talvot  
Coevolution -- ter-wakrubaya  
Cofactor -- ter-klai  
Community -- ha-travek  
Competition -- kuhlaya  
Competitive exclusion principle -- kuhlau-sanan-dvatai  
Cone -- thav  
Conifer -- thav-lap  
Convergent evolution -- teretau-wakrubaya  
Copse -- pi'laptra  
Cordate -- khaf-spol-shidik  
Corolla -- kur-mortra  
Cross-breeding -- tuhsau-kosh-vesaya  
Cross-pollination -- tuhsau-kas-vikantaya  
Cryophilic -- samek-ashauk  
Culm -- lesek-pi'fek  
Cultivation -- sokasitaya  
Cyanobacterium -- pla-yar-talvot

Cytoplasm -- (nen-)nala-tukh  
 Daughter cell -- kan-nala  
 Daughter nucleus -- kan-nala-svitan  
 Deciduous -- set-morik  
 Deciduous summer forest -- eik-morik set-mor-laptra  
 Deciduous tree -- set-mor-lap  
 Deformity -- riyeht-shid'es  
 Dehiscent -- nei-savas-tu'ashik  
 Dehydration -- nemashaya  
 Density -- ihn'es  
 Dentate -- zudlar-shidik  
 Denticulate -- pi'zudlar-shidik  
 Deoxyribonucleic acid (DNA) -- sash t'dah-ha-svitan (SDH)  
 Desert -- eshikh  
 Desertification -- eshikh-storaya  
 Dessication -- psethilaya  
 Detritivore -- ha-guhsh-yokulsu  
 Detritus -- ha-guhsh  
 Development -- storaya  
 Differentiated -- natilauk  
 Differentiation -- natilaya  
 Diffusion -- sasak  
 Dimer -- dah-ketek  
 Dimerous -- dah-krusik  
 Dimictic -- dah-da-kuvauk  
 Dioecious -- natya-kasik  
 Diplococcus -- dah-dukak-talvot  
 Diploid -- dah-toltra-nala  
 Disassortative mating -- rika-ves-katelaya  
 Dispersal -- saganaya  
 Dispersal barrier -- saganau-foshek  
 Dispersal mechanism -- saganau-tor-vel  
 Dissolved oxygen level -- fezhau-vok t'masu-esh-tukh  
 Diurnal -- gad-wakik  
 Diurnal temperature variation -- gad-wakik falek'es-vuhnaya  
 Diversity -- don-ka'es  
 Domestication -- ha'kelikaya  
 Dominant -- abrupik  
 Drupe -- kahm-savas  
 Dry season -- pseth-tevun-yonuk  
 Dystrophic -- gan-tevanik  
 Ecosystem -- ha-ek'torektra  
 Ectoparasite -- si-neshuhk  
 Endobiotic -- tvi-hatik  
 Endoparasite -- tvi-neshuhk  
 Endoplasm -- tvi-tukh  
 Energy flow -- tepul-yumaya  
 Entomophilous -- ravot-ashauk  
 Environment -- ek'sitra  
 Enzyme -- zalu  
 Ephemeral -- sahr-kastik  
 Ephemerophyte -- sahr-kastik  
 Epibiotic -- fi-hatik

Epidermis -- si-wadi  
 Epilimnion -- abru-masu-tin t'suk'muzh  
 Epipellic -- fi-vrel-hatik  
 Epiphyte -- fi-vath-kastik  
 Epiphytotic -- kas-shal-has  
 Ergot -- yartik-luk  
 Essential element -- bolayek-meilak  
 Etiolation -- mu'gel-to'ovaya  
 Euhaline -- krus-alem-masupik  
 Eukaryote -- svitan-ha-gel  
 Euphotic zone -- masu-ha'gel-shal  
 Euryecious -- eik-shal-hatik  
 Euryhaline -- eik-alem'es-kupik  
 Euryoxic -- ek'esh-tukh-kupik  
 Euryphagic -- eik-yokulik  
 Eurythermal -- eik-falek'es-kupik  
 Eutrophic -- don-katik  
 Evanescent -- rikwonik  
 Evergreen (adj.) -- kwon-morik  
 Evergreen (n.) -- kwon-mor-kastik, kwon-mor-lap  
 Evergreen forest -- kwon-mor-laptra  
 Evolution -- wakrubaya  
 Evolutionary lineage -- wakrubau-zehl'es  
 Evolutionary rate -- wakrubau-tav  
 Evolutionary trend -- wakrubau-venek  
 Exclusion principle -- sanan-dvatai  
 Exocytosis -- nala-kaushau-khrashaya  
 Exotic species -- akan-koshtri  
 Experimental error -- spolek-lafosh  
 Extant -- i'hatik  
 Extinct -- ek'tevik  
 Extinction -- ek'tevan  
 Factor -- klai  
 Facultative parasite -- on-neshuhk  
 Fatty acid -- the'l'a-sash  
 Fauna -- aushfatra  
 Female (adj.) -- kotik  
 Female (n.) -- ko  
 Fertility -- kanash'es  
 Fertilization -- vikantaya  
 Fiber -- slah  
 Filament -- pi'elakh (contraction variant: pelakh)  
 Filiform -- pi'elakh-shidik  
 Flagellum -- dvunel-pi'harr  
 Flora -- kastra  
 Floret -- wuh-svai-krus  
 Flower (n.) -- svai  
 Flower (v.) -- svai-tor  
 Foliose -- mor-kahk  
 Forest -- laptra  
 Freshwater (adj.) -- slor-masutik  
 Freshwater (n.) -- slor-masu  
 Fructification -- savasaya

Fruit -- savas  
Fungus -- luk  
Fuscous -- mu-kur  
Gamete -- vinik guv-nala  
Gametocyte -- rivinik guv-nala  
Gametogenesis -- guv-nala-storaya  
Gaseous exchange -- pa-tukh-di'kizh  
Gender -- guv  
Gene -- tol  
Gene conversion -- tol-rushan  
Gene duplication -- tol-va'asaya  
Gene family -- tol-travek  
Gene flow -- tol-yumaya  
Gene pool -- tol-patra  
General adaptation -- pa'es-rubilaya  
Genetic code -- tol-kiht  
Genetic engineering -- tol-mish-tal  
Genetic variance -- tol-vuhnaya  
Geophyte -- ne-lesh-kastik  
Glucose -- nen-slor-tukh  
Golgi body -- suvan-vel  
Grassland -- yartra  
Greenhouse effect -- kastik-kelek-daya  
Ground cover -- lap-solektra-wein  
Ground layer -- kas-solektra-tin  
Grove -- pi'laptra  
Growing season -- to'ovau-tevun-yonuk  
Growth -- to'ovaya  
Growth regulator -- to'ovau-khartek  
Gymnosperm -- riwein-nei-kastik  
Gynoecious -- ko-gohik  
Gynoecium -- ko-svai-krus  
Habitat -- ha'kiv-shal  
Halophilic -- alem-ashauk  
Halophyte -- alem-solektra-kastik  
Haulm -- kas-pi'fek  
Hekistotherm -- pid-samek-kastik  
Heliophyte -- ek'ha'gel-kastik  
Helophyte -- ulef-masu-kastik  
Herb -- bar-got  
Hermaphrodite -- on-kuvsu  
Hermaphroditic -- on-kuvik  
Hesperidium -- duf-krus-savas  
Heterochrony -- natya-wak-vin  
Heterogamete -- natya-guv-nala  
Heterogamy -- natya-guv-kanashivaya  
Heteromorphic -- natya-shidik  
Heterophylly -- natya-mor-nosh  
Heterosis -- rish-hakar  
Hexose -- sheh-slor-tukh  
Hilum -- tersau-ulidar  
Homeostasis -- tihet-vo'ektilahr-venek  
Horotely -- bov-wakrubaya



Humid -- sov-masupik  
 Humidity -- sov-masu'es  
 Humification -- ha-solek-storaya  
 Humus -- ha-solek  
 Hyaline -- makhik  
 Hybrid -- rish-ha-vel  
 Hybrid vigor -- rish-hakar  
 Hybrid zone -- rish-ha-shal  
 Hydric -- pid-masu'es-kasik  
 Hydrolysis (biochem.) -- tukh-masu-folaya  
 Hydrophyte -- pid-masu'es-kastik  
 Hydroponics -- risolek-to'ovayek  
 Hygrophilous -- masu-shal-ashauk  
 Hygroscopic water -- solek-potau-masu  
 Hypogean -- ne-solektra-hatik  
 Hypolimnion -- glu-masu-tin t'suk'muzh  
 Immunity -- tefosh'es  
 Indehiscent -- rinei-savas-tu'ashik  
 Indigenous -- salatik  
 Inflorescence -- wek-svai-velek  
 Infructescence -- wek-savas-velek  
 Iterative evolution -- ashiv-velek-wakrubaya  
 Jungle -- nu'ri-masu-laptra  
 Ketone -- nalesh(-tukh)  
 Ketose -- nalesh-slor-tukh  
 Lamina -- thalv-velek  
 Lamine (adj.) -- tinik  
 Lanceolate -- li-wun-shidik  
 Latex -- kas-wan-tukh  
 Leaf -- mor  
 Leaflet -- wuh-mor-krus  
 Lentic -- hayal-masutik  
 Lenticular -- dah-si-gelekik  
 Lepidote -- pi'wef-weinik  
 Lepis -- pi'wef  
 Leptodermous -- wonil-wadilik  
 Liane (Liana) -- man-kastik  
 Life cycle -- ha'kiv-da-nel  
 Limb -- (lap-)kar  
 Liverwort -- yekvat  
 Long-day plant -- wu-gad-kastik  
 Longevity -- wu'nil'es  
 Lotic -- yumau-masutik  
 Macroclimate -- suk'shal-ek'nosh  
 Male (adj.) -- satik  
 Male (n.) -- sa  
 Mangrove forest -- alem-flash-laptra  
 Mangrove swamp -- alem-flash  
 Marsh -- masu-kastra  
 Maturation -- vin  
 Mature -- vinik  
 Meadow -- ne-yartra  
 Meiosis -- ulef-nala-dahsaya

Membrane -- nala-tin  
 Meristem -- um-to'ovau-nalatra  
 Meromictic -- kwon-tin-masutik  
 Mesic -- svi-masu'es-kasik  
 Mesophyte -- svi-masu'es-kastik  
 Metabolic pathway -- di'kish-torek-yutek  
 Metabolism -- di'kish-torek  
 Methane -- keh-masunol-tukh  
 Methanogenic -- keh-masunol-torvauk  
 Methanol -- eshu t'keh-masunol-tukh  
 Methanotroph -- keh-masunol-yokulsu  
 Methyl -- reh-masunol-tukh  
 Methylamine -- sovu t'kau-masunol-tukh  
 Methylene -- dah-masunol-tukh  
 Methylotroph -- masunol-yokulsu  
 Micro-aerobic -- pi'sov-eshupik  
 Microbe -- numo-ha-vel  
 Microbial -- numo-ha-velik  
 Microbiota -- numo-hatra  
 Microclimate -- pi'shal-ek'nosh  
 Microorganism -- numo-ha-vel  
 Microtubule -- numo-pi'mev  
 Midrib -- kas-bak, mor-bak  
 Migration -- bashan  
 Mineral cycle -- ek'tukh-da-nel  
 Mineral soil -- ek'tukh-solek  
 Mitochondrion -- nala-tepul-vel  
 Mitogenic -- ek'nala-dahsau-palikauk  
 Mitosis -- ek'nala-dahsaya  
 Mitotic spindle -- ek'nala-dahsau-magu  
 Mixed woodland -- rish-lap-shal  
 Moisture -- masu'es  
 Moisture budget -- masu-vo'ekti  
 Moisture index -- masu-nakh  
 Monoecious -- ka-kasik  
 Monosaccharide -- wuh-slortra-tukh  
 Montane forest -- suk'kunel-laptra  
 Montane zone -- suk'kunel-shal  
 Mosaic evolution -- nati-wakrubaya  
 Moss -- yekuhl  
 Mossy forest -- yekuhl-laptra  
 Multifactorial -- wek-klaik  
 Multiseriate -- wek-zehlik  
 Muriform -- dok-temok-shidik  
 Mushroom -- taik-luk  
 Mutagen -- tselayek  
 Mutagenic -- tselau-palikauk  
 Mutant -- tselasu  
 Mutation -- tselaya  
 Mutation rate -- tselau-tav  
 Native (adj.) -- salatik  
 Natural -- malatik  
 Natural selection -- malat-dvelan

Natural woodland - malat-lap-shal  
Naturalized -- malatuvauk  
Nature -- malat  
Necrosis -- nalatra-tevakh  
Niche -- sha'ti  
Nitrogen fixation -- sov-tukh-nodolaya  
Nocturnal -- mu'yor-wakik  
Nuclear envelope -- nala-svitan-tin  
Nucleoplasm -- svitan-nala-tukh  
Nucleus (cell) -- nala-svitan  
Nut -- kov-savas  
Nutrient -- yem-tanek  
Obligate parasite -- ek'neshuhk  
Obovate -- eik-um-shidik  
Oligotrophic -- glu-kanik  
Ontogeny -- kai-storaya  
Oogenesis -- yu-mur-shidaya  
Orchard -- lap-bah-ker  
Organelle -- pikhut  
Organic -- hatanik  
Organic matter -- hatan-tukh  
Organic soil -- hatan-solek  
Organism -- ha-vel  
Origin -- tveshu  
Osmosis -- k'fai-sanek  
Osmotic pressure -- k'fai-sanek-ne'hish  
Oviparous -- si-yu-mursuk  
Ovum -- (rivikantau-)yu-mur  
Oxidase -- esh-tukhovau-zalu  
Oxidation -- esh-tukhovaya  
Oxygen demand -- esh-tukh-klan  
Oxygenation -- esh-tukhaya  
Pachycaul -- bali-fekik  
Paleosol -- vesht-solek  
Paleospecies -- vesht-koshtri  
Palmate -- sau-krusik  
Pantothenic acid -- eklakalu-sash  
Parallel evolution -- vlavla-wakrubaya  
Parapatric -- beteretik  
Parasite -- neshuhk  
Parthenogenesis -- rivikantau-storaya  
Partial dominance -- ul-abrupik'es  
Partial parasite -- ul-neshuhk-kastik  
Particle density -- solek-krus-ihn'es  
Peltate -- fo-dan-shidik  
Pentamerous -- kau-krusik  
Pentose -- kau-slor-tukh  
Percolation -- ne-fna-dvun  
Perennial -- tevunik  
Permease -- nala-lesh-tukh  
Petal -- kur-mor  
Petiole -- mor-pi'fek  
Phloem -- si-tin t'lap-vukhut

Photoperiod -- ha'gel-wak-krus  
 Photoreceptor -- ha'gel-poprahek  
 Photosynthesis -- ha'gel-fereikan  
 Phototaxis -- ha'gel-rubah-dvun  
 Phototroph -- ha'gel-yokulsu  
 Phylogeny -- ha-ves-storaya  
 Phytol -- kas-yar-naliveh  
 Phytophagous -- kastik-yokultik  
 Pigment -- kurek  
 Pinnate -- patik  
 Pith -- pi'fek-svitan-nalatra  
 Plant -- kastik  
 Plesiomorphic -- os-shidik  
 Plicate -- hshaik  
 Pod -- tvi'haf  
 Pollen -- kas-sa-nei  
 Pollen rain -- tevan t'kas-sa-nei  
 Pollen sac -- sa'haf t'kas-sa-nei  
 Pollen tube -- pi'mev t'kas-sa-nei  
 Pollination -- kas-vikantaya  
 Polysaccharide -- wehk-slortra-tukh  
 Polyunsaturated fat -- weht-ribosh-thel'a  
 Prairie -- pseth-yar-eiktra  
 Primary pigment -- nen-kurek  
 Primary structure -- nen-velek  
 Primitive -- os-shidik  
 Producer -- torvayek  
 Production -- torvaya  
 Productivity -- torvauk'es  
 Protein -- ketek  
 Pyrophyte -- yon-kastik  
 Pyruvic acid -- nalesh-sash t'reh-nol-tukh  
 Quantum evolution -- sposhan-wakrubaya  
 Quantum speciation -- sposhan-koshtrivaya  
 Quasi-sympatric speciation -- sha'ti-dahsau-koshtrivaya  
 Quinone -- natuhekta-tukh  
 Race -- koshtri  
 Raceme -- svai-teluk  
 Radicle -- ten-mal-gir  
 Recessive gene -- za-tol  
 Reflex -- tvisek  
 Refugium -- ha-rau-nol  
 Regulator gene -- tash-tol  
 Relict -- hafau-ha-vel  
 Replicase -- va'asau-zalu  
 Replication -- va'asaya  
 Reproduction -- kanashivaya  
 Resin -- lap-stan-tukh  
 Reverse mutation -- pla'rak-tselaya  
 Rhizome -- ne-solektra-pi'fek  
 Rhizosphere -- gir-shal  
 Ribitol -- kau-nol-naliveh  
 Ribonucleic acid (RNA) -- sash t'wuh-ha-svitan

Rigidity -- stegal'es  
 Ripe -- piyah  
 Ripening -- piyahtaya  
 Root -- gir  
 Root pressure -- gir-ne'hish  
 Runner -- sak-fek  
 Saccharide -- slotra-tukh  
 Saline -- alemik  
 Saline soil -- alem-solek  
 Salinity -- alem'es  
 Salt marsh -- alem-masu-kastra  
 Salt stress -- alem-hishel  
 Saltwater (adj.) -- alem-masutik  
 Saltwater (n.) -- alem-masu  
 Sap -- kas-khaf  
 Sapling -- kan-lap  
 Saprophage -- tevanu-ha-yokul'su  
 Saturated fat -- vibosh-thel'a  
 Saxicolous -- fi-kov-hatik  
 Scavenger -- tevanu-yokul'su  
 Sciaphilic -- duvek-ashauk  
 Sciophyte -- duvek-kastik  
 Secondary structure -- thurai-velek  
 Seed -- nei  
 Selection -- dvelan  
 Self-fertilization -- shai-vikantaya  
 Self-pollination -- shai-kas-vikantaya  
 Sepal -- svai-mor  
 Septum -- temok  
 Serrated -- zudlar-shidik  
 Sex chromosome -- guv-toltra  
 Sexual -- guvik  
 Sexual reproduction -- guv-kanashivaya  
 Short-day plant -- pen-gad-kastik  
 Shrub -- labah  
 Slime -- shuhk  
 Soil -- solek  
 Soil air -- solek-sov  
 Soil horizon -- solek-tin  
 Soil structure -- solek-velek  
 Somatic cell -- tsuri-nala  
 Somatic mutation -- tsuri-nala-tselaya  
 Speciation -- kosht'rivaya  
 Species -- kosht'ri  
 Species longevity -- kosht'ri-difan'es  
 Spermatozoon -- sa-nei  
 Spindle -- magu  
 Spontaneous mutation -- shai-tselaya  
 Spore -- rikas-sa-nei  
 Stamen -- kas-sa-krus  
 Stellate -- yel-shidik  
 Stem -- kas-fek  
 Stipule -- mor-nen-vel

Stock -- fek  
Stolon -- sak-fek  
Stoma -- kas-sharu  
Structure -- velek  
Subclimax tropical rain forest -- nu'ri-masu-laptra  
Subshrub -- ne-labah  
Subspecies -- ne-koshtri  
Sucrase -- potau-slor-zalu  
Sucrose -- potau-slor-tukh  
Swamp -- flash  
Symbiont -- haterkadu  
Symbiosis -- haterkadaya  
Sympatric -- hateretik  
Tachytely -- sahr-wakrubaya  
Taiga -- samek-laptra  
Tannin -- kas-khav-kurek  
Tapetum -- vek t'rikas-sa-nei  
Taxon -- ha-veltra  
Telocentric chromosome -- shaht-toltra  
Ternary fission -- nala-rehsaya  
Terricolous -- fi-solek-to'ovauk  
Testa -- nei-wein  
Tetramer -- keh-ketek  
Tetrameros -- keh-krusik  
Texture -- lef'es  
Thallophyte -- rinatila-kastik  
Thallose -- rinatila-kasik  
Thallus -- rinatila-vukhut  
Theca -- smol-fo  
Thermoduric -- falek-rishupik  
Thermophile -- falek-ashausu  
Thiamine -- wuh-bin-tukh  
Thicket -- pi'laptra  
Thigmotaxis -- esta-sadvun  
Tilth -- sokasitau-solek-nosh  
Timber -- lap-tukh  
Tissue -- nalatra  
Topsoil -- skonn-solek  
Toxin -- hasam  
Trace element -- pi'lek-meilak  
Transpiration -- kas-samasu-eshan  
Tree -- lap  
Trifoliate -- reh-pi'morik  
Trimer -- reh-ketek  
Trimerous -- reh-krusik  
Tropical montane forest -- falu-suk'kunel-laptra  
Tropical rain forest -- falu-masu-laptra  
Tropical seasonal forest -- falu-yonuk-laptra  
Trunk -- lap-fek  
Tuber -- ne-solektra-korsayek  
Turgor -- nala-ne'hish-stegal'es  
Twig -- pi'gel  
Uniramous -- rigelik

Uniseriate -- wuh-zehlik  
Unisexual flower -- wuh-guv-svai  
Univoltine -- wuh-tevun-vinik  
Unsaturated fat -- ribosh-thel'a  
Vacuole -- nala-korsau-haf  
Vagile -- kup-padvunik  
Vagility -- kup-padvun'es  
Variation -- vuhnaya  
Vegetation -- kashtra  
Venation -- mor-mevaya  
Virion -- rihak-pi'krus  
Vine -- kas-elakh  
Virion -- rihak-pi'krus  
Viroid -- rihak-vel  
Virus -- rihak  
Viviparous -- tvi-yu-mursuk  
Vegetable -- sazh  
Weed -- vedik  
Wetland(s) -- masu-kas-shal  
Wheat -- kap-yar  
Wilderness -- shi'kwai  
Wildlife -- kwai-aushfatra  
Wood -- lapan  
Woodland -- lap-shal  
Woody -- lapanik  
Xanthophyll -- kas-kin-kurek  
Xeric -- neik-masu'es-kasik  
Xerophyte -- neik-masu'es-kastik  
Xylem -- tvi-tin t'lap-vukhut  
Xylose -- lapan-slor-tukh  
Yeast -- leip-luk  
Yolk -- vek  
Yolk sac -- vek-sa'haf  
Zonation -- shalitaya  
Zygomorphic -- wuh-pa'ashutik  
Zygote -- sto-yu-mur  
Zymase -- naliveh-zalu  
Zymogen -- za-zalu

## Main Technology Page Nen-Thalu t-Ek'Mishan

### ***INTRODUCTION***

#### **Ragtaya**

As is well-known throughout the Federation, the Vulcans are noted for their excellence in technology and engineering. In order to survive and prosper on a very harsh planet, the Vulcans learned to create tools and machines relatively early as an absolute necessity for their survival. As is mentioned on our Vulcan history page, their initial industrial revolution took place much faster than that of most advanced humanoid races. Unfortunately, as is also the case with most humanoids, technological developments occurred at a quicker rate during times of war, which were frequent throughout most of Vulcan's history before Surak. Several devastating wars in early times killed millions and destroyed a number of unique planetary cultures. Since the time of Surak, though, the Vulcans have developed their technology peacefully.

The Vulcans attained spaceflight at an early stage and had interplanetary ships many centuries ago. One splinter group of apostate Vulcans left the planet millennia ago and eventually founded the Romulan Empire. Vulcan exploratory vessels traveled throughout the quadrant and made first contact with several technically advanced races, including Earth (Terra), which ultimately lead to the founding of the United Federation of Planets.

"What one person can imagine, another can create" -- Jules Verne, 19th Century human writer & visionary

"Technological development without logic is suicide" -- Sokal, famous Vulcan inventor & Surak contemporary

### ***TERMINOLOGY***

#### **Zhilakam**

As with most technically advanced races, the Vulcans have a huge vocabulary of specialized terms for use in the technical, engineering, spacefaring, infrastructure and weaponry fields. As is also common with many advanced cultures, a word or term may have a different meaning when used in a domestic situation as compared to a technical situation. Below you will find a substantial introduction to a wide range of technical words and terminology:

Ablative hull armor -- falkrashauk khut-fo-wein  
 Abrasive (n.) -- gashayek  
 Absorbent (n.) -- vi-seshayek  
 Accelerator -- sahrayek  
 Access panel -- thro-wein  
 Active polaron scan -- torupik narak-vel-glashaya  
 Adapter -- rubilau-vel  
 Adhesive (n.) -- terpayek  
 Aft parabolic thruster -- za-dahkvalu-kwitek  
 Aft plasma vent -- za-snazh-krau  
 Aft thruster compartment -- za-kwitek-sutauk  
 Air conditioner -- sov-noshek  
 Air conditioning -- sov-noshaya



Air conditioning duct -- sov-noshau-mev  
 Aircraft -- sov-hali  
 Airliner -- sov-su-yata  
 Airlock -- fna-svpep  
 Alarm -- vikayek  
 Alignment -- zehl'es  
 Alkaline battery -- sovash-kipof  
 Altimeter -- pidek-thonek  
 Amplifier -- ashenayek  
 Android -- sutorsu  
 Anemometer -- salan-thonek  
 Anodyne circuit -- raf-kuv t'kusut-toranu  
 Antenna -- kash-gel  
 Antenna grid -- kash-gel-vis  
 Anti-backdraft valve -- tehn-zafnalan-spunek  
 Anti-grav (unit) -- tehn-ne-seshanek  
 Anti-graviton beam -- tehn-sesh'gal-zehlek  
 Anti-graviton beam emitter -- sayek t'tehn-sesh'gal-zehlek  
 Aquaduct -- masu-ur  
 Architect -- te'koshfet  
 Architecture -- te'kosh  
 Armor -- fo-wein  
 Array (n.) -- zehlaya  
 Arrow -- kliton  
 Artificial -- sutorik  
 Artificial gravity -- sutor-ne-seshan  
 Artificial gravity generator -- ferek t'sutor-ne-seshan  
 Artificial gravity plate (grav-plate) -- ne-seshan-math  
 Ascent thruster -- shen-kwitek  
 Assembly -- feretai  
 Astrogator -- stukh-kharayek  
 Astrometric sensor -- stukh-thonau-kashek  
 Asymmetric decryption circuit -- ritalikalik sasatilau-raf-kuv  
 Asymmetric encryption circuit -- ritalikalik visatilau-raf-kuv  
 Auto-dock system -- shati-kifau-torektra  
 Auto-landing system -- shati-fisolekau-torektra  
 Autodoctor (Autodoc) -- shati-hassu  
 Auxiliary control (room) -- kvath-tash-svitan  
 Auxiliary core -- kvath-tviyan  
 Auxiliary fire control (room) -- kvath-pohshau-svitan  
 Auxiliary power interface -- kvath-tepul-tvihanek  
 Ax(e) -- la'ash  
 Axle -- da-fek  
 Axonal amplifier -- wel-elakh-ashenayek  
 Backup data network -- kvath-faik-vistra  
 Backup neuro-electric power cell -- kvath-tepul-nala t'wel-raf-tepul  
 Balance (scales) -- vo'ekti  
 Balcony -- fal-yat  
 Barrel (container) -- subok  
 Barrel (gun) -- wun-mev  
 Barometer -- sov-ne'hish-thonek  
 Baryon sensor -- pu'gal-kashek  
 Base (support) -- nen

Basket -- ki'haf  
 Bathyscaph -- glu-masutra-hali  
 Bathysphere -- glu-masutra-vel  
 Battery -- kipof  
 Beacon -- glaribek  
 Beam (ray) -- ha'zehl  
 Beam boost injector -- ha'zehl-aborau-vipohshayek  
 Beam emitter -- ha'zehl-sayek  
 Beam force selector -- ha'zehl-nekwitau-dvelek  
 Beam width selector -- ha'zehl-eik'es-dvelek  
 Bell -- kus-vakh  
 Belt -- san-zhel  
 Benamite crystal -- benam-tukh-khush  
 Beta matrix compositor -- tih-viskulan-tertitayek  
 Bicycle -- dah-halek  
 Bio-scanner -- ha-glashayek  
 Biogenic compound -- ha-storau-tukh  
 Biomimetic gel -- ha-va'amau-khlup  
 Biosynthetic limb -- ha-sutorik sikrus  
 Blast shutter -- thorsh-fo-wein  
 Blower -- salur-vel  
 Boat -- masu-hali  
 Boiler -- kanek  
 Bomb -- thorshek  
 Booster -- aborayek  
 Booster modulator -- aborayek-nakihtilayek  
 Bottle -- mashek  
 Bow (n.) -- khom-krus  
 Bowl -- yerak  
 Box -- natuhn  
 Breaker -- (raf-)shayek  
 Breakthrough -- sastoraya  
 Brick -- dok  
 Bridge (command center) -- tash-svitan  
 Bridge (structure) -- mesut  
 Bridge access relay -- thro-gol'dvunek t'tash-svitan  
 Buffer (n.) -- fukat  
 Buffer circuit -- fukat-raf-kuv  
 Building -- kelek  
 Bulkhead -- tvi-temok  
 Bussard collector -- tershayek t'Bussard  
 Button -- gonaf  
 Cabinet -- tsorayek  
 Cable -- elakh  
 Caliper(s) -- bal-thonek  
 Cam -- ok  
 Camshaft -- ok-fek  
 Canal -- masu-yut  
 Cannon -- thorshun  
 Capacitor -- tsorek  
 Cargo bay -- tusla-sutauk  
 Cargo hold -- tusla-tsorau-shal  
 Cargo loading floor -- tusla-tus-tol

Cargo module -- tusla-natel  
 Cargo pod -- tusla-tvi'haf  
 Cargo storage complex -- tusla-tsorau-keltra  
 Cargo transporter -- tusla-ifisek  
 Cargo unit -- tusla-kebi  
 Carrier wave -- lesh-pral  
 Catalyst -- torai-tukh  
 Catwalk -- mesah  
 Chain -- mokev-elakh  
 Chair -- ku-san  
 Chamber -- tvi-shal  
 Charge (electrical) -- falun  
 Chiller -- samuyek  
 Chime (n.) -- kusek  
 Chimney -- vuzh-mev  
 Chromodynamic light -- kur-toranu-ha'gel  
 Chromoelectric force field -- fosh-vunai t'kur-raf-tepul  
 Chroniton -- wak'gal  
 Chroniton beam -- wak'gal-zehlek  
 Chronometer -- wak-vel  
 Circuit -- raf-kuv  
 Circuit breaker -- raf-kuv-shayek  
 Circuit relay -- raf-kuv-gol'dvunek  
 Circuitry -- raf-kuvtra  
 Clarifier -- pa'shayek  
 Clock -- wak-vel  
 Coaxial cable -- elakh t'dah-da-sfek  
 Coaxial induction drive -- vimevilau-yeturek t'dah-da-sfek  
 Coaxial warp drive -- tchas-yeturek t'dah-da-sfek  
 Coherent neutrino beam -- thak-ska'gal-zehlek  
 Coil -- pakuv  
 Coil spanner -- pakuv-mish-raul  
 Combustion chamber -- yontau-tvi-shal  
 Command processor -- khartau-patorayek  
 Communications laser -- sviribau-ha'zehlek  
 Communications relay -- sviribau-gol'dvunek  
  
 Communicator -- sviribayek  
 Compactor -- lerakhovau-vel  
 Compiler -- travilayek  
 Compressed air -- lerakh-sov  
 Compression -- lerakh'es  
 Compressor -- lerakovayek  
 Computer -- tum-vel  
 Computer bank -- tum-vel-kutra  
 Computer bay -- tum-vel-sutauk  
 Computer core -- tum-vel-tviyan  
 Computer display -- tum-vel-gluyayek  
 Computer interface -- tum-vel-tvihanek  
 Computer memory -- tum-vel-vokaya  
 Condition red tracer light -- zavikau-ha'gel t'yon-kur-nosh  
 Conductor -- spayek  
 Conduit -- mev

Connecting dorsal -- tersau-ralek  
Connection -- tersaya  
Connector -- tersayek  
Container -- tuhlek  
Containment field -- tuhlau-vunai  
Containment system -- tuhlau-torektra  
Control (device) -- tashek  
Control console -- tashal  
Control panel -- tash-math  
Control pedestal -- tash-nelka  
Controller -- tashek  
Converter -- rushanek  
Coolant -- samuyau-tukh  
Cooler -- samuyek  
Cooling unit -- samuyau-kebi  
Core -- tviyan  
Core matrix -- tviyan-viskulan  
Corridor -- tvur  
Coupler -- teretek  
Coupling -- tersayek  
Course programming panel -- rivak-tumau-math  
Craft (vehicle) -- hali  
Cryogenic fluid -- samu-tor-masu  
Cryogenic fluid supply line -- tanilau-mev t'samu-tor-masu  
Cryogenic storage unit -- korsau-kebi t'samu-tor-vitaya  
Cultivator -- sokasitayek  
Cup -- monek  
Cupboard -- tsorayek  
Dagger -- lipitah  
Damage control -- zakar-tash  
Dampening field -- fish-vunai  
Data crystal phase inverter -- wek-abomesayek t'faik-khush  
Data input access panel -- thro-wein t'faik-svin  
Data interface -- faik-tvihaneke  
Data network -- faik-vistra  
Data node -- faik-kal  
Data storage device -- faik-tsorau-vel  
De-hiss circuit -- sashisau-raf-kuv  
Deck -- lan-tol  
Decoder -- sakihtek  
Decompiler -- satravilayek  
Decryption matrix -- sasatilau-viskulan  
Deep space imaging system -- glakuvau-torektra t'glu-stukh  
Defense -- fosh  
Deflector (shield) -- sakwitayek  
Deflector (shield) grid -- sakwitayek-vis  
Deflector array -- sakwitayek-zehlaya  
Deflector field generator -- sakwitayek-vunai-ferek  
Demodulator -- sakihtilayek  
Densitometer -- ihn-thonek  
Depth finder -- gluder-thonek  
Dermal regenerator -- wadi-vaferek  
Detonator -- thorshayek

Deuterium injector -- vipohshayek t'dah-masu-tukh  
 Developer (device) -- storayek  
 Deviation plotter -- tekeret-besayek  
 Differential induction drive -- natilau-vimevilau-yeturek  
 Diffuser -- sasek  
 Dilithium -- dah-pim-tukh  
 Dilithium articulation frame -- terfitilau-nentu t'dah-pim-tukh  
 Dilithium containment pedestal -- tuhlau-nelka t'dah-pim-khushlar  
 Dilithium coupling -- dah-pim-tersayek  
 Dilithium crystal -- dah-pim-khush  
 Dilithium mining facility -- van-kebitra t'dah-pim-tukh  
 Dilithium reactor -- dah-pim-foleyek  
 Diplomatic courier vessel -- dutar-shan-hali  
 Discriminator -- sakathilayek  
 Disintegrator -- fezhilayek  
 Dispenser -- tanek  
 Display (n.) -- gluvayek  
 Disrupter -- feshelek  
 Disrupter induction coil -- feshelek-vimevilau-pakuv  
 Distress beacon -- flakosh-glaribek  
 Distress signal -- flakosh-glantokaya  
 Distribution manifold -- sagan-wehk-vel  
 Distribution node -- sagan-kal  
 Distributor -- saganek  
 DNA acquisition sensor -- prah-kashek t'SDH  
 Docking latch -- kifau-kuhr  
 Docking light -- kifau-ha'gel  
 Docking port -- kifau-tersvep  
 Door -- svep  
 Drain (loss) -- smashaya  
 Drain (pipe) -- smash-mev  
 Drive (n.) -- yeturek  
 Drive section -- yeturek-krus  
 Driver coil -- yetur-pakuv  
 Driver coil assembly -- yetur-pakuv-feretai  
 Duct -- mev  
 Duonetic coupler -- dah-fel-teretek  
 Dynamo -- toranelek  
 Dyson sphere -- ek'kal t'Daison  
 Efficiency rating -- yeht-urgam'es-tavan  
 Ejector -- dakh-vel  
 Electricity -- raf-tepul  
 Electrodynamic fluid -- raf-toranu-masu  
 Electrodynamic probe -- raf-toranu-nisayek  
 Electroferretic diffuser -- raf-shek-sasek  
 Electron resonance scanner -- u'gal-kusilau-glashayek  
 Electronics bay -- raf-ar'kada-sutauk  
 Elevator -- sa'adek  
 Emergency anti-grav thruster -- kefik tehn-sesh-kwitek  
 Emergency atmospheric gas feed -- kef-tanilau-mev t'igen-pa-tukh  
 Emergency battery room -- kef-kipof-shal  
 Emergency bridge -- kvath-tash-svitan  
 Emergency containment grid -- kef-tuhlau-vis

Emergency flush intake -- prah-vel t'kef-kluhvaya  
 Emergency flush vent -- kef-kluhvau-krau  
 Emergency hatch -- kef-thro-svep  
 Emergency landing leg -- kef-fisolekau-mal  
 Emergency medical hologram (EMH) -- kefik has-reh-bikuvsu  
 Emergency life support -- kef-ha'kiv-nenikaya  
 Emergency survival compartment -- kef-rishan-tsorayek  
 Emergency transporter -- kef-ifisek  
 Emitter -- sayek  
 Emitter array -- sau-zehlaya  
 Encoder -- vikihtek  
 Encryption matrix -- visatilau-viskulan  
 Energy -- tepul  
 Energy focusing matrix -- tepul-thakau-viskulan  
 Engine -- mishu  
 Engineer -- mishek  
 Engineering (field) -- mish-tal  
 Engineering (spaces) -- mish-shal  
 Engineering computer bay -- tum-vel-sutauk t'mish-shal  
 Environmental systems monitor -- glantayek t'ek'sitra-torektralar  
 EPS conduit -- raf-snazh-mev  
 EPS matrix converter -- viskulan-rushanek t'raf-snazh  
 EPS regulator -- raf-snazh-pakhartayek  
 EPS relay -- raf-snazh-gol'dvunek  
 EPS system -- raf-snazh-torektra  
 Equipment (gear) -- tanovau-tukh  
 Equipment (machinery) -- mishitra  
 Escalator -- shenek  
 Exchange matrix -- di'kizh-viskulan  
 Evaporator -- na-sovayek  
 Experiment -- spolek  
 Explosives -- thorshau-tukh  
 Extravehicular activity (EVA) -- si-hali-torai  
 Fabricator -- zhukek  
 Fan (device) -- sovek  
 Fiber-optic cable -- ha'gel-slah-elakh  
 Fiber-optic data network -- faik-vistra t'ha'gel-slah-elakh  
 Field (n.) -- vunai  
 Field coil -- vunai-pakuv  
 Field generator matrix -- vunai-ferek-viskulan  
 Field stabilizer Filament -- pelakh  
 Filter (n.) -- kapol  
 Filtration -- kapol-toraya  
 Fingerprint scanner -- ozhidar-glashayek  
 Fire control panel -- pohshau-tash-math  
 Fire retardant -- yon-vohr-tukh  
 Fire suppressant -- yon-nelau-tukh  
 Fire suppression system -- yon-nelau-torektra  
 Fission reactor -- galu-dahshau-foleyek  
 Floodlight -- zup-ha'gel  
 Floor -- lan-tol  
 Flow monitor -- yumau-thonek  
 Flow regulator -- yumau-pakhartayek

Flow sensor -- yumau-kashek  
 Flux capacitor -- gasu-tsorek  
 Flux coupler -- gasu-teretek  
 Flux modifier safeties -- gasu-rubitau-ek'maneklar  
 Focusing barrel -- thakau-wun-mev  
 Food dispenser -- yem-tanek  
 Food synthesis unit -- yem-fereik-kebi  
 Force field -- fosh-vunai  
 Force field barrier -- fosh-vunai-foshek  
 Force field generator -- fosh-vunai-ferek  
 Forced ejection system -- nekwitau-dakh-torektra  
 Foundation -- nen  
 Four-way interlink shunt -- keh-yutik tvinaf-mutau-vel  
 Frequency discriminator -- vakav'es-sakathilayek  
 Fresh water tank -- slor-masu-tuhlek  
 Freezer -- le-sumayek  
 Fuel -- hal-tukh  
 Fuse (n.) -- shau-vel  
 Fusion reactor -- galu-kaunshau-folayek  
 Gain control -- nazh-tashek  
 Galley (kitchen) -- af'tum  
 Gangway -- thro-yut  
 Garage -- pi'hali-kel  
 Gas flow separator -- dahshayek t'pa-tukh-yumaya  
 Gas grenade -- pa-tukh-thorshek  
 Gauge -- mik-yal  
 Gear (equipment) -- tanovau-tukh  
 Gear (mechanical) -- zud-halek  
 Generator -- ferek  
 Glass -- makh  
 Grav-plate -- ne-seshan-math  
 Gravimetric pulse -- seshilan-sagaya  
 Gravimetric scanner -- seshilan-glashayek  
 Gravimetric shear -- seshilan-eitaya  
 Gravitic calipers -- seshu-bal-thonek  
 Gravitic mine -- seshu-ip-thorshek  
 Gravitic sensor -- seshu-kashek  
 Graviton beam -- sesh'gal-zehlek  
 Graviton beam emitter -- sesh'gal-zehlek-sayek  
 Graviton field -- sesh'gal-vunai  
 Graviton stabilizer -- sesh'gal-tihetilayek  
 Grenade -- lehm-thorshek  
 Gun -- pohshayek  
 Gyrodyne relay -- pada-toranu-gol'dvunek  
 Gyromagnetic stabilizer -- pada-seshan-tihetilayek  
 Gyroscope -- vo'ekti-padanek  
 Hall(way) -- tvur  
 Hammer (n.) -- mah-vel  
 Hand phaser -- el'ru-wek-zehlek  
 Hangar -- hali-kel  
 Hatch -- thro-svep  
 Hatch window -- throp-svep-krani  
 Heat sink -- falek-seshayek

Heater -- falekek  
 Helicopter -- da-rala-hali  
 Helm (station) -- dakharau-shal  
 Helm control panel -- dakharau-tash-math  
 High energy flux conductor -- gasu-spayek t'pid-tepul  
 High pressure atmospheric gas feed -- pid-ne'hish-mev t'igen-pa-tukh  
 Hinge -- tu'adayek  
 Holding cell -- potau-tvi-shal  
 Holo-emitter -- reh-bikuv-sayek  
 Holodeck -- reh-bikuv-sutauk  
 Hologram (inanimate object or non-sentient being) -- reh-bikuv  
 Hologram (image of sentient being) -- reh-bikuvsu  
 Holographic projector -- reh-bikuv-salehmek  
 Holomatrix -- reh-bikuv-viskulan  
 Hydrometer -- masu-thonek  
 Hydrosprayer -- vunai-mish-raul  
 Hygrometer -- sov-masu-thonek  
 Hyperimpulse drive -- pid-kwitau-yeturek  
 Hypersprayer -- wek-mish-raul  
 Hypospray -- pa-vipohtek  
 Igniter -- yonek  
 Impulse deflection crystal -- kwitau-sakwitau-khush  
 Impulse drive -- kwitau-yeturek  
 Impulse drive prestart sequencer -- fe-palikau-zehlanayek t'kwitau-yeturek  
 Impulse engine -- kwitau-mishu  
 Impulse engine induction matrix -- vimevilau-viskulan t'kwitau-mishu  
 Impulse flow regulator -- kwitau-yumau-pakhartayek  
 Inclinator -- galat-thonek  
 Induction grid -- vimevilau-vis  
 Induction modulator -- vimevilau-nakihtilayek  
 Induction stabilizer -- vimevilau-tihetilayek  
 Inertial dampening field -- kahla-fish-vunai  
 Inertial dampening generator -- kahla-fish-ferek  
 Inertial damper -- kahla-fishek  
 Information subsystems monitor -- glantayek t'ro'fori-ne-torektralar  
 Inhibitor -- netehnovayek  
 Initiator -- palikayek  
 Injector -- vipohshayek  
 Injector valve -- vipohshau-spunek  
 Ink -- neshuk  
 Inlet flow sensor -- kashek t'prah-vel-yumaya  
 Inner hatch -- tvi-thro-svep  
 Input gain mode stabilizer -- svin-nazhu-tihetilayek  
 Input sampling buffer -- svin-li-fukat  
 Insignia communicator -- terseht-sviribayek  
 Intake -- prah-vel  
 Integration matrix -- ketilau-viskulan  
 Integrator -- ketilayek  
 Intercom -- tvi-sviribayek  
 Intercom system -- tvi-sviribau-torektra  
 Intercom unit -- tvi-sviribau-kebi  
 Intercooler -- tvi-samuyek  
 Interface -- tvihanek



Interface program -- tvihan-tumaya  
 Interlink -- tvinaf  
 Interlink sequencer -- tvinaf-zehlanayek  
 Intermix chamber -- rish-folau-vel  
 Intermix shaft -- rish-folau-ur  
 Internal combustion engine -- tvi-yontau-mishu  
 Internal scan relay -- tvi-glashau-gol'dvunek  
 Internal security monitor -- tvi-shar-glantayek  
 Internal transporter node -- tvi-ifisek-kal  
 Interphase -- tvi-wek  
 Interphasic coil spanner -- tvi-wekik pakuv-mish-raul  
 Interplexing beacon -- tvi-wehkilau-glaribek  
 Invention -- fereik-vel  
 Inverter -- abomesayek  
 Ion -- falun-krus  
 Ion drive -- falun-krus-yeturek  
 Ion radiation filter -- saya-kapol t'falun-krus  
 Ion transtator -- falun-krus-mesnoshek  
 Isodyne relay -- ka-toranu-gol'dvunek  
 Isokinetic cannon -- ka-dvun-thorshun  
 Isokinetic containment field -- ka-dvunik tuhlau-vunai  
 Isolation hatch -- dahshau-shal-svep  
 Isolinear buffer circuit -- ka-zehlik fukat-raf-kuv  
 Isolinear emitter -- ka-zehlik sayek  
 Isolinear memory chip -- ka-zehlik vokau-val  
 Isolinear processor -- ka-zehlik patorayek  
 Isolinear static memory core -- ka-zehlik vit-vokau-tviyan  
 Isomagnetic conduit -- ka-seshan-mev  
 Jeffries tube -- thro-mev t'Dzhefris  
 Key (n.) -- tal-muv  
 Keyboard -- ozh-svin-math  
 Kinetic detonator -- dvukwul-thorshayek  
 Knife -- lipau  
 LaCoya spanner -- mish-raul t'LaKoya  
 Ladder -- pu'uth  
 Lance (n.) -- li-wun  
 Landing bay -- fisolekau-sutauk  
 Laser -- ha'zehlek  
 Laser cannon -- ha'zehlek-thorshun  
 Latch -- kuhr  
 Lateral impulse control system -- vlaik kwitau-tash-torektra  
 Lateral impulse thruster -- vlaik kwitau-kwitek  
 Lathe -- da-skrimmek  
 Launch bay -- spusau-sutauk  
 Launch sequencer -- spusau-zehlanayek  
 Lead-acid battery -- ras-sash-kipof  
 Length -- wu-vath  
 Library computer -- oska-tum-vel  
 Library Computer Access & Retrieval System (LCARS) -- Ek'thro-torektra t'Oska-tum-vel  
 Life support -- ha'kiv-nenikaya  
 Lifeboat -- rishan-hali  
 Lifepod -- rishan-tvi'haf  
 Light -- ha'gel

Light bulb -- ha'gelek  
 Light panel -- ha'gel-math  
 Lighting -- ha'gelan  
 Linear intermix system -- zehlik rish-folau-torekra  
 Linear intermix chamber -- zehlik rish-folau-vel  
 Liner, Ocean -- masutra-su-yata  
 Lining -- tvitaya  
 Lock (n.) -- klachek  
 Machine -- mish-vel  
 Magnathrust propulsion unit -- datau-kebi t'seshan-kwit  
 Magnatomic flux chiller -- samuyek t'seshan-galu-gasu  
 Magnet -- seshan-kov  
 Magnetic constrictor -- seshan-khluhkayek  
 Magnetic field drive -- seshan-vunai-yeturek  
 Magnetic field intensity -- seshan-vunai-karik'es  
 Magnetic flow field -- seshan-yumau-vunai  
 Magnetic plasma guide -- seshan-snazh-kakhartayek  
 Magnetic repulsor -- seshan-kwitayek  
 Magnetic seal interlock -- tvi-klachek t'seshan-fen  
 Magnetic storage bottle -- seshan-korsau-tuhlek  
 Magnetometer -- seshan-thonek  
 Main archives -- nen-oska  
 Main armory -- nen-wun-shal  
 Main bridge -- nen-tash-svitan  
 Main computer processor -- nen-patorayek t'tum-vel  
 Main engineering -- nen-mish-sutauk  
 Main gangway hatch -- nen-thro-svep t'thro-yut  
 Main viewer -- nen-gluvayek  
 Maintenance shop -- rompotau-zup-shal  
 Manifold -- wehk-vel  
 Manual hatch control -- el'rupik thro-svep-tashek  
 Marker beacon -- ulidau-glaribek  
 Marker buoy -- ulidayek  
 Master differential relay -- tren-natilau-gol'dvunek  
 Matrix inverter -- viskulan-abomesayek  
 Matter gain -- tukh-nazh  
 Matter/antimatter containment system -- tuhlau-torekra t'tukh-tehn-tukh  
 Matter/antimatter reactor -- folayek t'tukh-tehn-tukh  
 Matter/antimatter reactor assembly (MARA) -- folayek-feretai t'tukh-tehn-tukh  
 Matter/antimatter storage facility -- korsau-kebitra t'tukh-tehn-tukh  
 Mechanism -- tor-vel  
 Medical stasis unit -- has-vitau-kebi  
 Medical tricorder -- has-reh-vipladayek  
 Memory chip -- vokau-val  
 Memory core -- vokau-tvivan  
 Memory head -- vokau-patam  
 Meter (device) -- thonek  
 Micro-computer -- numo-tum-vel  
 Micro-diagnostic table -- numo-satalau-pasu  
 Microcaliper -- numo-bal-thonek  
 Microcellular scanner -- numo-nala-glashayek  
 Microdyne coupler -- numo-toranu-teretek  
 Microfusion reactor -- numo-kaunshau-folayek

Microinducer -- numo-vimevilayek  
 Microlathe -- numo-da-skrimmek  
 Microphone -- viralashek  
 Micropower conduit -- numo-tepul-mev  
 Micropower relay -- numo-tepul-gol'dvunek  
 Microscope -- numo-zan-vel  
 Microwave frequency waveguide -- vakav'es-pral-yut t'numo-prallar  
 Microwave oven -- numo-pral-fasek  
 Mine (explosive) -- ip-thorshek  
 Missile -- yon-kliton  
 Mixer -- rishek  
 Modem -- na-sakihtilayek  
 Modulator -- nakihtilayek  
 Molecular imaging scanner -- galutravek-glakuv-glashayek  
 Monitor (checking device) -- glantayek  
 Monitor (viewscreen) -- gluvayek  
 Morphogenic matrix -- shid-rub-viskulan  
 Multi-spatial force field -- wehk-stukhik fosh-vunai  
 Multi-spectral sweep -- wehk-kurtra-fnash  
 Multidimensional transporter -- wehk-retuka-ifisek  
 Multiphasic scan -- wehk-wek-glashaya  
 Multiphasic shielding -- wehk-wekik fo-danan  
 Multiphasic sweep -- wehk-wek-fnash  
 Nacelle -- mishu-leshek  
 Nacelle support pylon -- nenikau-tersau-vel t'mishu-leshek  
 Navigation (station) -- kharau-shal  
 Navigation control panel -- kharau-tash-math  
 Navigation light -- kharau-ha'gel  
 Navigational deflector -- kharau-sakwitayek  
 Navigational deflector monitor -- kharau-sakwitayek-glantayek  
 Needle -- lum  
 Neodyne light -- uzh-toranu-ha'gel  
 Neural transponder -- wel-vavayek  
 Neuro-electric field generator -- vunai-ferek t'wel-raf-tepul  
 Neuro-electric power cell -- tepul-nala t'wel-raf-tepul  
 Nickel-cadmium (NiCad) battery -- orn-stal-kipof  
 Noise reduction circuit -- raf-kuv t'ralash-netakidaya  
 Oil -- elmin  
 Observation port -- glantau-krani  
 Oltion coil -- pakuv t'Oltion  
 Optical assembly -- gla-feretai  
 Optical data network (ODN) -- gla-faik-vistra (GFV)  
 Optical interface -- gla-tvihanek  
 Optolithic data rod -- gla-kovik faik-fek  
 Optronic chip -- gla-ar'kada-val  
 Optronic data core -- gla-ar'kadaik faik-tviyan  
 Optronic integrator -- gla-ar'kada-ketilayek  
 Optronic relay -- gla-ar'kada-gol'dvunek  
 Osteoregenerator -- hinek-vaferek  
 Outer hatch -- si-thro-svep  
 Outlet -- sek  
 Oven -- fasek  
 Overload suppressor -- abru-tus-nelayek

Oxygen tank -- esh-tukh-tuhlek  
 Paint (n.) -- kras  
 Palmprint scanner -- kuidar-glashayek  
 Panel (cover) -- wein  
 Panel (display) -- (gluvau-)math  
 Paper -- dun  
 Parametallic hull plating -- plo-mokevik vukh-slaun  
 Particle accelerator -- pi'gal-sahrayek  
 Particle beam -- pi'gal-zehl  
 Particle beam engine -- pi'gal-zehl-mishu  
 Pattern buffer -- nel-dath-fukat  
 Pedestal -- nelka  
 Personnel hatch -- su-thro-svep  
 Personnel locator display -- su-shi-gluvayek  
 Piezoelectricity -- khush-raf-tepul  
 Phase amplifier -- wek-ashenayek  
 Phase coil inverter -- wek-pakuv-abomesayek  
 Phase decompiler -- wek-satravilayek  
 Phase discriminator -- wek-sapa'shayek  
 Phase modulator -- wek-nakihtilayek  
 Phase shift -- wek-izaya  
 Phase-conjugate graviton beam -- wek-terauk sesh'gal-zehlek  
 Phase-diverted carrier wave -- wek-mutauk lesh-pral  
 Phaser -- wek-zehlek  
 Phaser bank -- wek-zehlek-kutra  
 Phaser cannon -- wek-zehlek-thorshun  
 Phaser coil -- wek-zehlek-pakuv  
 Phaser power pack -- tepul-vel t'wek-zehlek  
 Phaser rifle -- kar-wek-zehlek  
 Photon grenade -- ha'gal-thorshek  
 Photon torpedo (Photorp) -- ha'gal-lushun  
 Photon torpedo bay -- ha'gal-lushan-sutauk  
 Photon torpedo launcher -- ha'gal-lushun-spusayek  
 Photon torpedo tube -- ha'gal-lushun-mev  
 Pipe -- mev  
 Pistol -- el'ru-pohshayek  
 Piston -- kwit-patam  
 Planetfall hatch -- ek'tra-thro-svep  
 Planetfall ramp -- ek'tra-thro-yut  
 Plasma conductor -- snazh-spayek  
 Plasma conduit -- snazh-mev  
 Plasma display subsystem -- ne-torekra t'snazh-gluvaya  
 Plasma distribution manifold -- wehk-vel t'snazh-sagan  
 Plasma injector -- snazh-vipohshayek  
 Plasma intercooler safeties -- ek'maneklar t'snazh-tvi-samuyek  
 Plasma modulator -- snazh-nakihtilayek  
 Plasma surge -- snazh-tral  
 Plasma transfer conduit -- snazh-shan-mev  
 Plasma warhead -- snazh-thorsh-tam  
 Plotter -- besayek  
 Polarc modulator -- narak-nakihtilayek  
 Polarity maximizer -- narak-ek'anayek  
 Polaron emitter -- na'gal-sayek

Polaron field -- na'gal-vunai  
 Port (access) -- tersvep  
 Port (window) -- (pauk-)krani  
 Portable force field generator -- leshanik fosh-vunai-ferek  
 Portable phase discriminator -- leshanik wek-sapa'shayek  
 Portable thoron generator -- leshanik thor'gal-ferek  
 Potable water -- mon-masu  
 Power -- tepul  
 Power cell -- tepul-nala  
 Power conduit -- tepul-mev  
 Power converter -- tepul-rushanek  
 Power coupling -- tepul-tersayek  
 Power drain -- tepul-smashaya  
 Power gauge -- tepul-mik-yal  
 Power grid -- tepul-vis  
 Power outlet -- tepul-sek  
 Power plant -- tepul-torvayek  
 Power supply -- tepul-tanilayek  
 Power surge -- tepul-tral  
 Power transfer conduit -- tepul-shan-mev  
 Power trunk -- tepul-terur  
 Pre-fire chamber -- tvi-shal t'fe-pohshaya  
 Pressure control system -- vihish-tash-torektra  
 Pressure control system safeties -- ek'meklar t'vihish-tash-torektra  
 Pressure seal -- vihish-fen  
 Pressurization duct -- vihish-mev  
 Pressurization/depressurization system -- vihish-sahish-torektra  
 Primary force field deflector -- nen-sakwitayek t'fosh-vunai  
 Primary hull -- nen-vukh  
 Primary impulse injector -- nen-kwitau-vipohshayek  
 Primary impulse injector plasma vent -- snazh-krau t'nen-kwitau-vipohshayek  
 Primary power grid -- nen-tepul-vis  
 Primary security net -- nen-shar-vis  
 Primary warp plasma feed -- nen-yemek t'tchas-snazh  
 Printer -- hishek  
 Probe (device) -- nisayek  
 Processor -- patorayek  
 Program (computer) -- tumaya  
 Projector -- salehmek  
 Propeller -- dayek  
 Propulsion system -- datau-torektra  
 Propulsion unit -- datau-kebi  
 Protomatter -- fu-tukh  
 Prototype -- fu-vel  
 Proximity alarm -- be'es-vikayek  
 Proximity transceiver -- be'es-sasau-proprahek  
 Pulse generator -- sagau-ferek  
 Pump (n.) -- spol  
 Quantum field -- numen-vunai  
 Quantum flux regulator -- numen-gasu-pakhartayek  
 Quantum matrix -- numen-viskulan  
 Quantum phase inhibitor -- numen-wek-netehnovayek  
 Quantum scanner -- numen-glashayek

Quantum torpedo -- numen-lushun  
 Quarters -- ha-shal  
 Radiation suit (Radsuit) -- saya-saikhut  
 Radiator -- sayek  
 Radiogenic warhead -- sau-thorsh-tam  
 Rake (n.) -- dref  
 Ramat detonator -- ramat-thorshayek  
 Ray (beam) -- ha'zehl  
 Razor -- hohl-vel  
 Reactance injector -- folau-vipohshayek  
 Reaction-control system (RCS) -- folau-tash-torektra  
 Reaction-control thruster -- folau-tash-kwitek  
 Reactive body armor -- folauk vukhut-fo-wein  
 Reactor -- folayek  
 Reactor core -- folayek-tviyan  
 Receiver -- poprahek  
 Recorder -- vipladayek  
 Recorder-marker launch system -- spusau-torektra t'vipladayek-ulidayek  
 Recycling -- va'ash-da-nel  
 Recycling plant -- va'ash-da-nelek  
 Reel (n.) -- magu  
 Reflector -- haul-vel  
 Refrigerator -- samek-mish-vel  
 Refueling port -- hal-tukhau-tersvep  
 Regenerative force field -- vafer-fosh-vunai  
 Regenerator -- vaferek  
 Regulator -- pakhartayek  
 Relay (n.) -- gol'dvunek  
 Replicator -- nel'ashayek  
 Replicator memory core -- kolau-tviyan t'nel'ashayek  
 Resonance emitter -- kusilau-sayek  
 Resonator -- kusilayek  
 Retinal pattern scanner -- nel-dath-glashayek t'glan-nalatra-tin  
 Rifle -- kar-pohshayek  
 Ring latch -- mokuv-kuhr  
 Road -- fau-yut  
 Roof -- kam  
 Room -- tvi-shal  
 Rope -- man-elakh  
 Safety (device) -- ek'manek  
 Saucer section -- mathra-krus  
 Saucer separation -- mathra-dahshaya  
 Scan (n.) -- glashaya  
 Scan field selector -- glashau-vunai-dvelek  
 Scan mode selector -- glashau-nuk-dvelek  
 Scan range selector -- glashau-eik'es-dvelek  
 Scanner -- glashayek  
 Science tricorder -- ek'tal-reh-vipladayek  
 Screen (display) -- gluvayek  
 Screen (shield) -- sananek  
 Seal (n.) -- fen  
 Secondary command processor -- dahr-khartau-patorayek  
 Secondary hull -- dahr-vukh

Section -- krus  
 Security armor -- shar-fo-wein  
 Security code -- shar-kiht  
 Security scan system -- shar-glashau-torektra  
 Selection panel -- dvel-math  
 Selector -- dvelek  
 Self-destruct (n.) -- shai-vashaya  
 Self-destruct system -- shai-vashau-torektra  
 Self-replicating mine -- shai-nel'ashauk ip-thorshek  
 Self-sustaining holo-emitter -- shati-potunik reh-bikuv-sayek  
 Sensor -- kashek  
 Sensor activity monitor -- kashek-toran-glantayek  
 Sensor array -- kashek-zehlaya  
 Sensor array monitor -- glantayek t'kashek-zehlaya-torektra  
 Sensor feed -- kashek-yemek  
 Sensor focusing coil -- kashek-thakau-pakuv  
 Sensor matrix input grid -- svin-vis t'kashek-viskulan  
 Sequencer -- zehlanayek  
 Sewage -- guhsh-masu  
 Sewer main -- guhsh-masu-ek'mev  
 Sewing machine -- og-vel  
 Shell (n.) -- fo  
 Shield (n.) -- fo-dan  
 Shield emitter -- fo-dan-sayek  
 Shielding -- fo-danan  
 Shifter -- izayek  
 Ship -- hali  
 Shredder -- tresahk-vel  
 Shuttle(craft) -- shan-hali  
 Shuttle(craft) bay -- shan-hali-sutauk  
 Shuttle(craft) bay door -- svep t'shan-hali-sutauk  
 Shuttle(craft) hangar -- hali-kel t'shan-hali  
 Sickbay -- has-sutauk  
 Signal (n.) -- glantokaya  
 Signal beacon -- glantokau-glaribek  
 Signal generator -- glantokau-ferek  
 Signal subprocessor -- glantokau-ne-patorayek  
 Site-to-site transporter -- shi-shi-ifisek  
 Slipstream drive -- trel-pilash-yeturek  
 Smokestack -- vuzh-mev  
 Sonic shower -- ralash-mashulayek  
 Space-energy field attraction sensor -- skamau-kashek t'stukh-tepul-vunai  
 Space-energy/matter sink -- prai-vel t'stukh-tepul-tukh  
 Spaceship -- stukh-hali  
 Spacesuit -- stukh-saikhut  
 Spark (n.) -- kil  
 Stasis tube -- vitau-mev  
 Speaker -- saralashhek  
 Spear (n.) -- tilek  
 Speed -- threshan  
 Spindle (n.) -- magu  
 Stabilizer -- tihetilayek  
 Stairs -- kaiden

Stairwell -- kaiden-ur  
 Starliner -- yel-su-yata  
 Starship -- yel-hali  
 Starter -- palikayek  
 Stasis -- vitaya  
 Status board -- nosh-math  
 Stern (n.) -- harr-krus  
 Storage compartment -- tsorayek  
 Strap (n.) -- zhel  
 Structural integrity field (SIF) -- kel-ket'es-vunai  
 Structural support -- kel-nenikaya  
 Subatomic disrupter -- ne-galu-feshelek  
 Subcutaneous transponder -- ne-wadi-vavayek  
 Submarine -- ne-masu-hali  
 Subprocessor -- ne-patorayek  
 Subspace communications -- ne-stukh-sviribaya  
 Subspace communicator -- ne-stukh-sviribayek  
 Subspace field grid -- vunai-vis t'ne-stukh  
 Subspace transceiver array -- sasau-proprah-zehlaya t'ne-stukh  
 Subspace uplink -- ne-stukh-abrunaf  
 Subspace waveguide -- pral-yut t'ne-stukh  
 Superconducting power supply trunk -- pid-spaik tepul-tanilau-terur  
 Superconductor -- pid-spayek  
 Support pylon -- nenikau-tersau-vel  
 Surge arrestor -- tral-pehkayek  
 Surgical tissue regenerator -- sharushan-nalatra-vaferok  
 Survival suit -- rishan-saikhut  
 Switch -- dvelek  
 Synaptic stimulator -- wel-haf-kastorilayek  
 Synthesizer -- fereikek  
 Syringe -- vipotek  
 Table -- pasu  
 Tachyon beam -- sahr'gal-zehl  
 Tachyon field -- sahr'gal-vunai  
 Tachyon scanner -- sahr'gal-glashayek  
 Tandem impulse unit -- vlavla-kwitau-kebi  
 Tank (storage) -- tuhlek  
 Targeting sensor -- les-kashek  
 Telescope -- irak-zan-vel  
 Temporal field generator -- wak-vunai-ferek  
 Temporal transmitter -- wak-sasayek  
 Temporal transponder -- wak-vavayek  
 Teratogenic coolant -- stislak-samuyau-tukh  
 Tether coupling -- elsaku-tersayek  
 Thermal guidance sensor -- falek-kakhartau-kashek  
 Thermometer -- falek-thonek  
 Thoron particle-beam rifle -- kar-pohshayek t'thor'gal-zehl  
 Thoron shock emitter -- thor'gal-kolau-sayek  
 Throttle -- threshan-tashek  
 Thrust initiator -- kwit-palikayek  
 Thruster -- kwitek  
 Thruster array -- kwitek-zehlaya  
 Thruster pack -- su-kwitek



Thruster suit -- kwitek-saikhut  
Timer -- wakek  
Tissue regenerator -- nalatra-vaferek  
Tool -- raul  
Torpedo -- lushun  
Touchkey panel -- esta-tal-muv  
Tractor beam -- seshau-zehl  
Tractor beam emitter -- seshau-zehl-sayek  
Transceiver -- sasau-proprahek  
Transceiver array -- sasau-proprah-zehlaya  
Transkinetic chamber -- mesakh-dvunik tvi-shal  
Transmitter -- sasayek  
Transparent aluminum -- fnagla-wan-tukh  
Transponder -- vavayek  
Transport (vessel) -- ifis-hali  
Transport scanning beam -- ifis-glashau-zehlek  
Transporter (matter) -- ifisek  
Transporter beacon -- ifisek-glaribek  
Transporter buffer -- ifisek-fukat  
Transporter lock -- ifisek-klachek  
Transporter pad -- ifisek-math  
Transporter platform -- ifisek-skaf  
Transporter room -- ifisek-tvi-shal  
Transporter scrambler -- ifisek-parishek  
Transtator -- mesnoshek  
Transverse bulkhead -- mes-tvi-temok  
Transwarp corridor -- mesakh-tchas-tvur  
Transwarp drive -- mesakh-tchas-yeturek  
Travel pod -- halovau-tvi'haf  
Tricobalt explosives -- thorshau-tukh t'reh-pla-tukh  
Tricorder -- reh-vipladayek  
Trigger -- ozh-gonaf  
Trilithium explosives -- thorshau-tukh t'reh-pim-tukh  
Trolley coupler -- ne-halektra-teretek  
Turbolift -- seshan-sa'adek  
Turbolift car -- seshan-sa'adek-hal  
Turbolift shaft -- seshan-sa'adek-ur  
Unimatrix shielding -- wuh-viskulanik fo-danan  
Universal translator -- ek'mesukh-stari-vel  
Utility belt -- isan-san-zhel  
Valve -- spunek  
Velocity -- threshan  
Vent (n.) -- krau  
Ventilation -- kraulaya  
Ventilator -- kraulayek  
Vessel (ship) -- hali  
Viewer -- gluvayek  
Viewing screen -- gluvayek  
Viewscreen -- gluvayek  
Visual sensor pickup -- gla-kashek-prahek  
Voice/data selector -- spes-faik-dvelek  
Volume control -- ral'es-tashek  
Wall -- temok

Warhead -- thorsh-tam  
 Warp core -- tchas-tviyan  
 Warp core breach -- tchas-tviyan-shaya  
 Warp core matrix compositor -- viskulan-teritayek t'tchas-tviyan  
 Warp conduit -- tchas-mev  
 Warp diagnostic assembly -- feretai t'tchas-nosh-nisaklar  
 Warp drive -- tchas-yeturek  
 Warp drive prestart sequencer -- fe-palikau-zehlanayek t'tchas-yeturek  
 Warp engine -- tchas-mishu  
 Warp engine nacelle -- tchas-mishu-leshek  
 Warp factor -- tchas-klai  
 Warp field -- tchas-vunai  
 Warp field generator unit -- ferek-kebi t'tchas-vunai  
 Warp plasma conduit -- tchas-snazh-mev  
 Warp plasma filter -- tchas-snazh-kapol  
 Warp plasma stabilizer -- tchas-snazh-tihetilayek  
 Warp plasma subprocessor -- ne-patorayek t'tchas-snazh  
 Warp speed -- tchas-threshan  
 Waste management system -- guhsh-khartau-torektra  
 Wastewater -- guhsh-masu  
 Wastewater recycling plant -- va'ash-da-nelek t'guhsh-masu  
 Water main -- masu-ek'mev  
 Waveguide -- pral-yut  
 Wheel -- halek  
 Width -- eik-vath  
 Window -- krani  
 Wing (n.) -- rala  
 Wire (electrical) -- raf-elakh  
 Workbee -- ar'kada-ravot  
 Workshop -- zup-shal  
 Wormhole -- stukh-riur  
 Wrench -- mish-vel-raul  
 Wrist communicator -- kar-nik-sviribayek

### ***Technological Abbreviations***

As is the case with most highly technological humanoids/vulcanoids with spoken and written languages, the Vulcans have developed abbreviations and acronyms to make using the specialized terms in the technical, engineering, spacefaring, infrastructure, weaponry fields, etc., easier in conversation, teaching and documentation. Below you will find an introductory list of some Golic Vulcan technical abbreviations and acronyms:

**D-PY** (dahshayek t'pa-tukh-yumaya) -- gas flow separator

**DKhP** (dahr-khartau-patorayek) -- secondary command processor

**ESV** (ek'mesukh-stari-vel) -- universal translator

**ET-OTV** (ek'thro-torektra t'Oska-tum-vel) -- Library Computer Access & Retrieval System (LCARS)

**FF-TT** (folayek-feretai t'tukh-tehn-tukh) -- matter/antimatter reactor assembly (MARA)

**FK** (faik-kal) -- data node

**FPZ-KY** (fe-palikau-zehlanayek t'kwitau-yeturek) -- impulse drive prestart sequencer

**FPZ-TY** (fe-palikau-zehlanayek t'tchas-yeturek) -- warp drive prestart sequencer

**FRK** (fukat-raf-kuv) -- buffer circuit  
**FSNS** (ferek t'sutor-ne-seshan) -- artificial gravity generator  
**FTT** (folau-tash-torektra) -- reaction-control system (RCS)  
**FTV** (faik-tsorau-vel) -- data storage device  
**FV** (faik-vistra) -- data network  
**FV-HSE** (faik-vistra t'ha'gel-slah-elakh) -- fiber-optic data network  
**FV-KRT** (fosh-vunai t'kur-raf-tepul) -- chromoelectric force field  
  
**G-ET** (glantayek t'ek'sitra-torektralar) -- environmental systems monitor  
**G-RNT** (glantayek t'ro'fori-ne-torektralar) -- information subsystems monitor  
**GDF** (galu-dahshau-folayek) -- fission reactor  
**GFV** (gla-faik-vistra) -- optical data network (ODN)  
**GGG** (galutravek-glakuv-glashayek) -- molecular imaging scanner  
**GKF** (galu-kaunshau-folayek) -- fusion reactor  
**GKht** (guhsh-khartau-torektra) -- waste management system  
**GS-PT** (gasu-spayek t'pid-tepul) -- high energy flux conductor  
  
**H-L** (ha'gal-lushun) -- photon torpedo (photorp)  
  
**IGZ** (ifis-glashau-zehlek) -- transport scanning beam  
  
**K-HRB** (kefik has-reh-bikuvsu) -- emergency medical hologram (EMH)  
**KFF** (kahla-fish-ferek) -- inertial dampening generator  
**KFV** (kvath-faik-vistra) -- backup data network  
**KHN** (kef-ha'kiv-nenikaya) -- emergency life support  
**KK-STV** (korsau-kebi t'samu-tor-vitaya) -- cryogenic storage unit  
**KKV** (kel-ket'es-vunai) -- structural integrity field (SIF)  
**KTS** (kvath-tash-svitan) -- auxiliary control (room)  
**KYP** (kwitau-yumau-pakhartayek) -- impulse flow regulator  
**KZ-VV** (ka-zehlik vokau-val) -- isolinear memory chip  
  
**L-FVF** (leshanik fosh-vunai-ferek) -- portable force field generator  
**L-S** (lerakh-sov) -- compressed air  
**L-ThF** (leshanik thor'gal-ferek) -- portable thoron generator  
  
**MTY** (mesakh-tchas-yeturek) -- transwarp drive  
  
**NDG-GNT** (nel-dath-glashayek t'glan-nalatra-tin) -- retinal pattern scanner  
**NGP** (numen-gasu-pakhartayek) -- quantum flux regulator  
**NP-TV** (nen-patorayek t'tum-vel) -- main computer processor  
**NS-FV** (nen-sakwitayek t'fosh-vunai) -- primary force field deflector  
**NSM** (ne-seshan-math) -- artificial gravity plate (grav-plate)  
**NVG** (narak-vel-glashaya) -- polaron scan  
**NVY** (natilau-vimevilau-yeturek) -- differential induction drive  
**NWN** (numen-wek-netehnovayek) -- quantum phase inhibitor  
  
**PK-SDH** (prah-kashek t'SDH) -- DNA acquisition sensor  
**PKY** (pid-kwitau-yeturek) -- hyperimpulse drive  
**PM-VS** (plo-mokevik vukh-slaun) -- parametallic hull plating  
**PS-TTT** (pid-spaik tepul-tanilau-terur) -- superconducting power supply trunk  
**PST** (pada-seshan-tihetilayek) -- gyromagnetic stabilizer  
**PTG** (pada-toranu-gol'dvunek) -- gyrodyne relay

**R-SRK** (ritalikalik sasatilau-raf-kuv) -- asymmetric decryption circuit  
**R-VRK** (ritalikalik visatilau-raf-kuv) -- asymmetric encryption circuit  
**RKG** (raf-kuv-gol'dvunek) -- circuit relay  
**RKSh** (raf-kuv-shayek) -- circuit breaker  
**RSM** (raf-snazh-mev) -- EPS conduit

**S-N** (sov-noshaya) -- air conditioning  
**SHT** (si-hali-torai) -- extravehicular activity (EVA)  
**ShFT** (shati-fisolekau-torektra) -- auto-landing system  
**ShKT** (shati-kifau-torektra) -- auto-dock system  
**ShShI** (shi-shi-ifisek) -- site-to-site transporter  
**ShVT** (shai-vashau-torektra) -- self-destruct system  
**SK** (sagan-kal) -- distribution node  
**SSHM** (snazh-shan-mev) -- plasma transfer conduit  
**ST-VU** (spusau-torektra t'vipladayek-ulidayek) -- recorder-marker launch system  
**SV-KV** (svin-vis t'kashek-viskulan) -- sensor matrix input grid  
**SVF** (sakwitayek-vunai-ferek) -- deflector field generator  
**SZ** (sakwitayek-zehlaya) -- deflector array  
**SZS** (seshau-zehl-sayek) -- tractor beam emitter

**T-NS** (tehn-ne-seshanek) -- anti-grav (unit)  
**TN-DP** (terfitalau-nentu t'dah-pim-tukh) -- dilithium articulation frame  
**TN-DPKh** (tuhlau-nelka t'dah-pim-khushlar) -- dilithium containment pedestal  
**TN-WRT** (tepul-nala t'wel-raf-tepul) -- neuro-electric power cell  
**TS** (tash-svitan) -- bridge, command center  
**TSM** (tchas-snazh-mev) -- warp plasma conduit  
**TST** (tvi-sviribau-torektra) -- intercom system  
**TT-TT** (tuhlau-torektra t'tukh-tehn-tukh) -- matter/antimatter containment system  
**TTK** (tusla-tsorau-keltra) -- cargo storage complex  
**TV** (tum-vel) -- computer  
**TVT** (tih-viskulan-tertitayek) -- beta matrix compositor

**UKG** (u'gal-kusilau-glashayek) -- electron resonance scanner

**V-DMT** (vipohshayek t'dah-masu-tukh) -- deuterium injector  
**V-KTT** (vlaik kwitau-tash-torektra) -- lateral impulse control system  
**VF-WRT** (vunai-ferek t'wel-raf-tepul) -- neuro-electric field generator  
**VST** (vihish-sahish-torektra) -- pressurization/depressurization system  
**VT-TT** (viskulan-tertitayek t'tchas-tviyan) -- warp core matrix compositor  
**VV-KM** (vimevilau-viskulan t'kwitau-mishu) -- impulse engine induction matrix  
**VY-DDS** (vimevilau-yeturek t'dah-da-sfek) -- coaxial induction drive

**WPA** (wek-pakuv-abomesayek) -- phase coil inverter  
**WVF** (wak-vunai-ferek) -- temporal field generator  
**WZK** (wek-zehlek-kutra) -- phaser bank

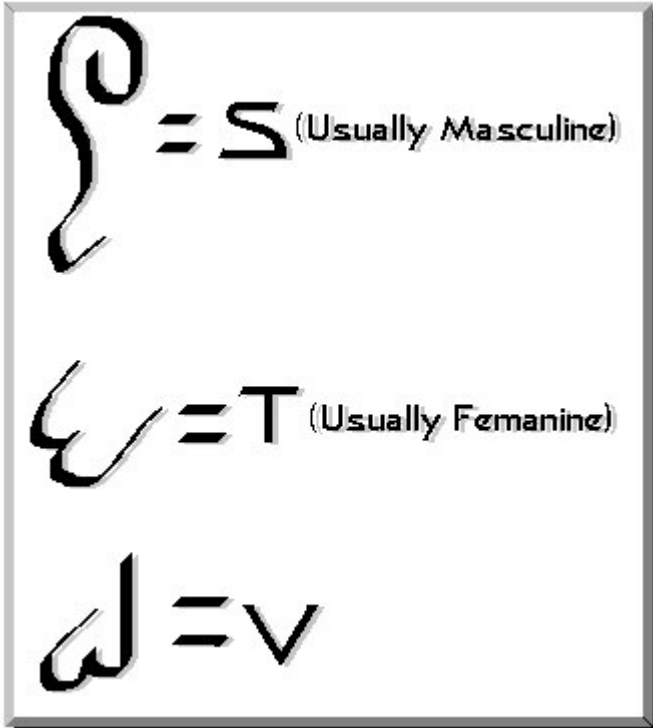
**YFK** (yem-fereik-kebi) -- food synthesis unit  
**YNT** (yon-nelau-torektra) -- fire suppression system  
**YPF** (yetur-pakuv-feretai) -- driver coil assembly

## Proposed Method For Writing Vulcan Names

*This is the only section of this book not taken from the Vulcan Language Institute website. This section is from the Center for Vulcanism site which can be found at [idic.tripod.com](http://idic.tripod.com)*

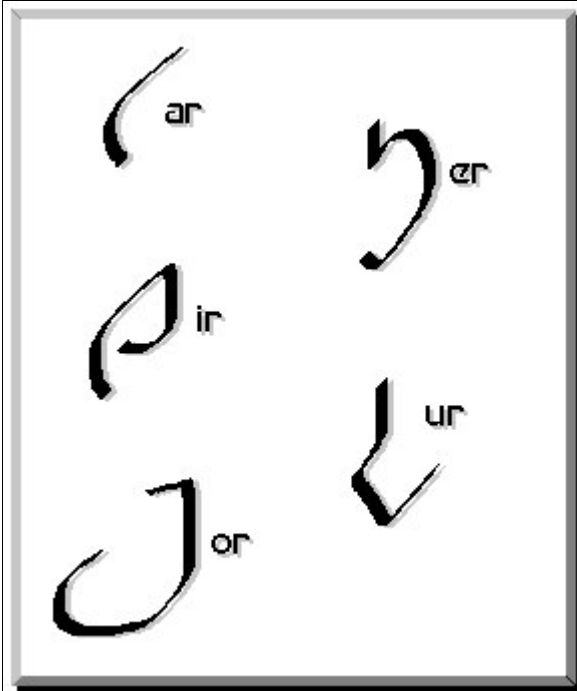
### Proposed Method For Writing Vulcan Names

These are the name starters:



You will probably recognize "S" as one of the symbols seen on many of Sarek's robes.

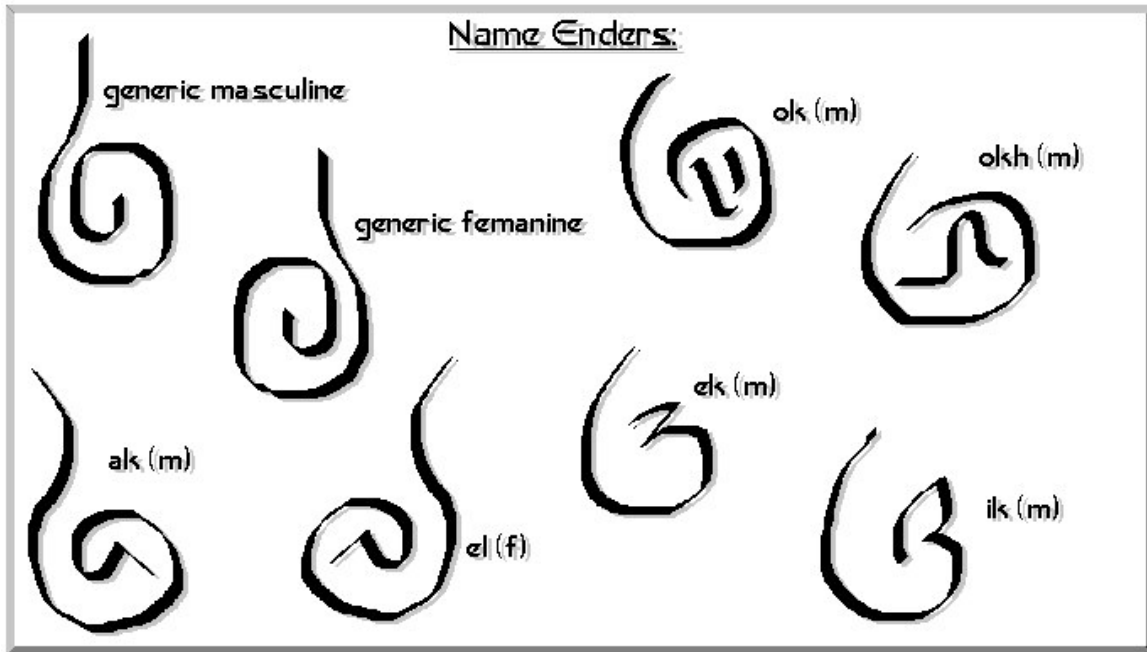
Additional characters follow on the next page.



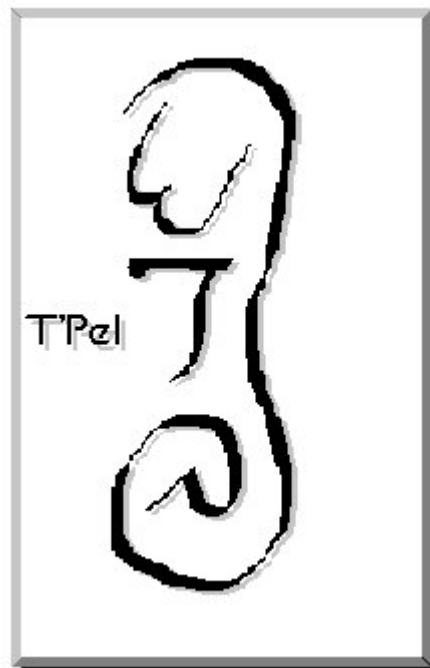
Vulcan character:	English sound:
ar	as in "car"
ir	as in "ear"
or	as in "corn"

Some additional characters:

These are the enders for names:



Some examples:



Or, to write a name in a horizontal format:



*The Modern Vulcan characters for {P} in "T'Pel", and {uu} and {v} in "Tuvok" were created by Rob Zook. Used by permission.*

## Internet resources

Please visit the **Vulcan Language Institute®** website for more information about the Vulcan language:

**[www.vulcanlanguage.com](http://www.vulcanlanguage.com)**

Other websites you may find interesting:

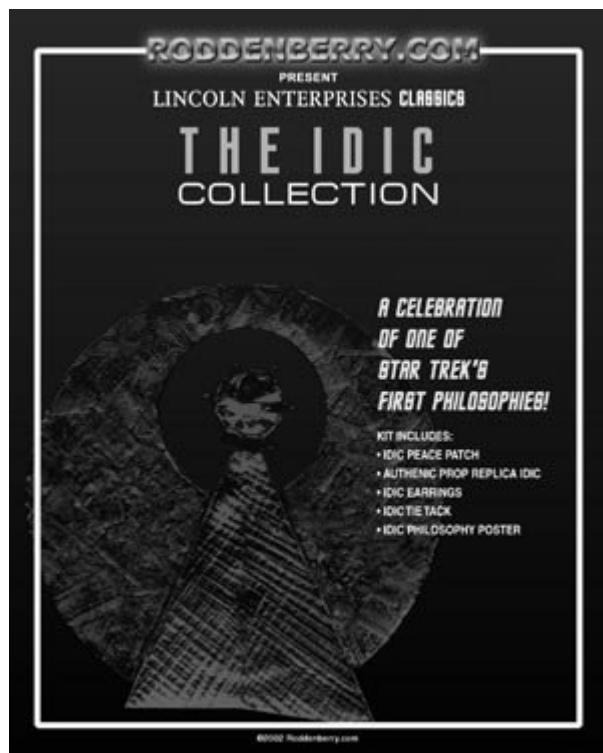
The **Vulcan Language Dictionary** at **[www.starbase-10.de/vld/](http://www.starbase-10.de/vld/)**

The **Center for Vulcanism** at **[idic.tripod.com](http://idic.tripod.com)** includes an explanation of how to write Vulcan names.

The **Center for the Advancement of Vulcanism** at **[members.fortunecity.com/stanek/](http://members.fortunecity.com/stanek/)**

The **Vulcan Resource Center** at **[my.ohio.voyager.net/~surak/Vulcan/vulcan.html](http://my.ohio.voyager.net/~surak/Vulcan/vulcan.html)**

**IDIC Jewellery** is available by searching for IDIC at **[store.roddeberr.com](http://store.roddeberr.com)**



The **vulcan-I** mailing list, for discussion of all things Vulcan, is mirrored in the **alt.fan.surak** newsgroup.

Dif-tor heh smusma.