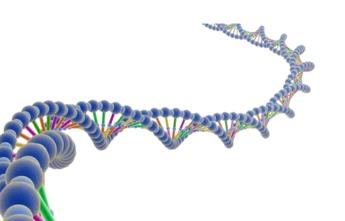
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# Language of Science

Learning the language of science is a lot like learning a new language.

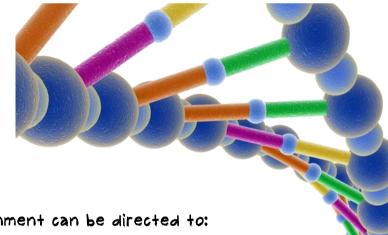
Scientists often use scientific words for common words that most of us already know. For example, a scientist will say "neo"

instead of "new" or "pseudo" instead of "fake". To learn science, you need to also learn this new language. Don't worry, though. This list will help you. Just remember that most words can be broken up into a PREFIX (the beginning of the word) and a SUFFIX (the end of the word).

The following tables contain 99 prefixes and their meanings, as well as 13 suffixes and what they mean. You will be quizzed over this list the second Friday of school, Sept. 2.

You will also need to complete the following assignment that is due on Tuesday, Sept. 6. This assignment should take an hour or so to complete.

Look at the example on the next page for help on how to use this list.



Questions regarding this summer assignment can be directed to:

Kristi Henderson

Kristi. Henderson@sfisd.org

Name		
Date		
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# PREFIX LIST = BEGINNINGS

PREFIX	MEANING	PREFIX	MEANING	PREFIX	MEANING
a-	without, lacking	e-/ef-/ex-	out, out of, from	oculo-	eye
ab-	away from	echin-	spiny	odont-	tooth
adipo-	fat	ect-	outsid	olf-	smell
alb-	white	en-	e in	omni-	all
amphi-/amp-	of both kinds	encephal-	brain	opthal-	eye
andr-	male	epi-	on, above	oss-/ost-	bone
angio-	vessel (blood)	extra-	outside, beyond	phag-	eat
ante-	before	gastro-	stomach	photo-	light
anthropo-	humans	gene-	origin, birth	plasm-	form
anti-	against	geo-	earth	pneumo-	lungs
aqua-	water	glottis-	mouth of windpipe	pre-	before
arbor-	tree	gymno-	uncovered	prot-/proto-	first
arthro-	jointed	hepato-	liver	pseudo-	fake, false
aster-	star	hetero-	different	retro-	backward, back
audi-	hear, sound	hiber-	winter	rota-	turn, wheel
auto-	self	homo-	same, alike	rupt-	break, burst
bi-	two, twice	hydro-	water	sub-	under, beneath
bio-	life, living	hyper-	over, above	super-/sur-	above, upon
bronch-	windpipe (lungs)	hypo-	below, under, less	tele-	at a distance
card-	heart	inter-	between	therm-	temperature
carn-	meat	intra-	within, during, inside	trans-	across, beyond
cell-	storeroom	ichty-	fish	tri-	three
cephalo-	head	immunis-	free	trop-	turning
chlor-	green	leuc-	white	ventr-	belly
chrom-	color	lith-	stone	uni-	one
chron-	time	luna-	moon	zo-	animal
coel-	hollow	macro-	large		
com-/con-/co-	with, together	meta-	change		
contra-	against	micro-	small		
cran-	head	mono-	single		
cyt-	cell	multi-	many		
de-	from, away	morph	form		
deca-	ten	- neo-	new		
derm	skin	non-	not		
- den-	tooth	neur-	nerve		
di-	two, double				
dia-	through,				
dis-/dif-	across apart				
- / -	from, deprive				
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#### SUFFIX LIST = ENDINGS

SUFFIX	MEANING
-able/-ible	able to, capable of
-algia	pain
-ectomy	cut out
-graph	instrument for making records
-ism	act of, condition
-itis	inflammation (swelling) or disease
-meter	measure
-ology/ -logy	study of, science of
-phyll	leaf
-pod/ -ped	foot, feet
-sCope	look, observe
-sect	cut
-sperm	seed
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## **Example of how to use this list:**

Word: **TELESCOPE** 

**Step 1.** Look up the first part of the word under the <u>PREFIX LIST</u>

 $\Box$  **tele** = at a distance

**Step 2.** Look for the rest of the word under the SUFFIX LIST

 $\Box$  **scope** = look or observe

**Step 3.** Put it together.

□ So, the whole word means "distance-look" or to look at something at a distance.

## **Note:**

☐ The order of the words may not always seem right; don't worry about the		he order of the	words may	not always	seem right;	don't worry	about that.
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- □ Sometimes you can only find one part of a word but that can be a good clue about the meaning
- ☐ You may have extra letters like o or a or i between two parts of a word—they don't mean anything
- ☐ If you don't see a word in the suffix list, check the prefix list. Sometimes, words can be both a prefix and a suffix.

me re
Using the <u>Language of Science</u> prefix and suffix lists, figure out the meanings of the following words:
Example: cardiology – heart study or science (study of the heart)
1. phototropism—
2. arthropod—
3. echinoderm—
4. epiglottis—
5. multicellular—
6. hypodermic—
7. anthropology—
8. hypothermic—
9. gymnosperm—
10. pseudopod —
11. photograph —
12. autograph —
13. neuralgia —
14. decapod —
15. hepatitis—
16. cytology—
17. zoology —
<b>18.</b> microbiology —
19. geology —
20. biology—
Notice that several prefixes can mean the same thing:
21. What are two prefixes that mean <u>ONE</u> or <u>SINGLE</u> ?
<b>22.</b> What are <b>two</b> suffixes that mean <u>CUT</u> or <u>CUT OUT</u> ?
23. What are two prefixes that mean <u>ABOVE</u> or <u>ON</u> ?
24. What are two prefixes that mean TWO?

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Just knowing one part of a word gives you a clue to the whole word:
25. Would you want to be careful when touching an animal called an ECHINDNA? Yes No
26. What does a <u>CARN</u> IVORE eat?
27. Is a NEONATE a tiny baby or an old person?
28. Is a <u>CRAN</u> IOTOMY a serious surgery? Yes No
29. An ALBINO rabbit is what color?
30. Does an AMPHIBIAN live on land or water?
31. If a medicine is <b>CONTRA</b> INDICATED for you, should you take it? Yes No
<b>32.</b> A <u>DERM</u> ATOLOGIST works with what part of the body?
<b>33.</b> How does a tiny animal called a <u>ROTI</u> FER travel through the water?
(hint: look up rota)
<b>34.</b> If you visited the Elysian Park <u>ARBOR</u> ETUM, what would you expect to see?
<b>35.</b> In 1969, where did the <u>LUN</u> AR mission land?
<b>36.</b> What is another name for a <a href="CHRON">CHRON</a> OMETER?
37. Why do they call this symbol (*) an <u>ASTER</u> ISK?