

## Scientific Root Words, Prefixes, And Suffixes

a-, an-	not, without, lacking, deficient	centi-	hundredth	-escent	becoming
ab-	away from, out from	centr-	center	eso-	inward, within, inner
-able	capable of	cephal-	head	eu-	well, good, true, normal
ac-	to, toward	cerat-	horn	eury-	widen
-aceous	of or pertaining to	cerebr-	brain	ex-	out of, away from
acou-, acous-	hear	cervic-	neck	extra-	beyond, outside
ad-	to, toward	chel-	claw	-fer-	bear, carry, produce
aden-	gland	chem-	dealing with chemicals	ferro-	iron
adip-	fat	chir-	hand	fibr-	fiber, thread
aero-	air	chlor-	green	-fid, fiss-	split, divided into
agri-	field, soil	chondr-	cartilage	-flect, -flex	bend
-al	having the character of	chrom-, -chrome	color	flor-	flower
alb-	white	chron-	time	flu-, fluct-, flux	flow
alg-, -algia	pain	-chym-	juice	foli-	leaf
alto-	high	-cid-, -cis-	cut, kill, fall	fract-	break
ambi-	both	circa-, circum-	around, about	-gam-	marriage
ameb-	change, alternation	cirru-	hairlike curls	gastr-	stomach
amni-	fetal membrane	co-	with, together	geo-	land, earth
amphi-, ampho-	both	cocc-	seed, berry	-gen-, -gine	producer, former
amyl-	starch	coel-	hollow	-gene-	origin, birth
ana-	up, back, again	coll-	glue	-gest-	carry, produce, bear
andro-	man, masculine	coni-	cone	-glen-	eyeball
anemo-	wind	contra-	against	-glob-	ball, round
ang-	choke, feel pain	corp-	body	gloss-	tongue
angi-	blood, vessel, duct	cort-, cortic-	outer layer	gluc-, glyc-	sweet, sugar
ante-	before, ahead of time	cosmo-	world, order, form	glut-	buttock
anter-	front	cotyl-	cup	gnath-	jaw
antho-	flower	counter-	against	-gon	angle, corner
anti-	against, opposite	crani-	skull	-grad-	step
anthropo-	man, human	cresc-, cret-	begin to grow	-gram, graph	record, writing
-ap-, -aph-	touch	crypt-	hidden, covered	grav-	heavy
apo-, ap-	away from	-cul-, -cule	small, diminutive	-gross-	thick
aqu-	water	cumul-	heaped	gymno-	naked, bare
archaeo-	primitive, ancient	cuti-	skin	gyn-	female
-ary-, -arium	denotes a place for something	cyan-	blue	gyr-	ring, circle, spiral
arteri-	artery	-cycle, cycl-	ring, circle	-hal-, -hale	breathe, breath
arthr-	joint, articulation	-cyst-	sac, pouch, bladder	halo-	salt
-ase	forms names of enzymes	cyt-, -cyte	cell, hollow container	hapl-	simple
aster-, astr-	star	dactyl-	finger	hector-	hundred
-ate	verb form – the act of	de-	away from, down	-helminth-	worm
anther-	fatty deposit	deca-	ten	hem-	blood
-ation	noun form – the act of	deci-	tenth	hemi-	half
atmo-	vapor	deliquesco-	become fluid	hepar-, hepat-	liver
audi-	hear	demi-	half	herb-	grass, plants
aur-	ear	dendr-	tree	hetero-	different, other
auto-	self	dent-	tooth	hex-	six
bacter-, bactr-	bacterium, stick, club	derm-	skin	hibern-	winter
barb-	beard	di-, dipl- (Latin)	two, double	hidr-	sweat
baro-	weight	di-, dia- (Greek)	through, across, apart	hipp-	horse
bath-	depth, height	dia- (Latin)	day	hist-	tissue
bene-	well, good	digit-	finger, toe	holo-	entire, whole
bi- (Latin)	two twice	din-	terrible	homo- (Latin)	man, human
bi-, bio- (Greek)	life, living	dis-	apart, out	homo- (Greek)	same, alike
-blast-	sprout, germ, bud	dorm-	sleep	hort-	garden
brachi-	arm	dors-	back	hydr-	water
brachy-	short	du-, duo-	two	hygr-	moist, wet
brady-	slow	-duct	lead	hyper-	above, beyond over
branchi-	fin	dynam-	power	hyph-	weaving, web
brev-	short	dys-	bad, abnormal, difficult	hyphno-	sleep
bronch-	windpipe	ec-	out of, away from	hypo-	below, under, less
cac-	bad	echin-	spiny, prickly	hyster-	womb, uterus
calor-	heat	eco-	house	-iae	person afflicted with disease
capill-	hair	ecto-	outside of	-iasis	disease, abnormal condition
capit-	head	-elle	small	-ic	(adjective former)
carcin-	cancer	-emia	blood	-chthy-	fish
cardi-	heart	en-, endo-, ent-	in, into, within	ign-	fire
cam-	meat, flesh	-en	made of	in-, il-, im-, ir-	not
carp-	fruit	encephal-	brain	in-, il-, im-, ir-	to, toward, into
carpal-	wrist	enter-	intestine, gut	in-	very, thoroughly
cata-	breakdown, downward	entom-	insects	-ine	of or pertaining to
caud-	tail	-eous	nature of, like	infra-	below, beneath
-cell-	chamber, small room	epi-	upon, above, over	inter-	within, inside
cen-, cene-	now, recent	-err-	wander, go astray	intra-	between
cente-	piece	erythro-	red	-ism	a state or condition

iso- equal, same  
 -ist person who deals with  
 -it is inflammation, disease  
 -ium refers to a part of the body  
 -kary- cell nucleus  
 kel- tumor, swelling  
 kerat- horn  
 kilo- thousand  
 kine- move  
 lachry- tear  
 lact- milk  
 lat- side  
 leio- smooth  
 -less without  
 leuc-, leuk- white, bright, light  
 lign- wood  
 lin- line  
 lingu- tongue  
 lip- fat  
 lith-, -lite stone, petrifying  
 loc- place  
 -log- word, speech  
 -logist one who studies  
 -logy study of  
 lumin- light  
 -lys-, -lyt-, -lyst decompose, split, dissolve  
 macr- large  
 malac- soft  
 malle- hammer  
 mamm- breast  
 marg- border, edge  
 mast- breast  
 med- middle  
 meg- million, great  
 mela-, melan- black, dark  
 -mer part  
 mes- middle, half, intermediate  
 met-, meta- between, along, after  
 -meter, -metry measurement  
 micro- small, millionth  
 milli- thousandth  
 mis- wrong, incorrect  
 mito- thread  
 mole- mass  
 mono- one, single  
 mort- death  
 mot- move  
 morph- shape, form  
 multi- many  
 mut- change  
 my- muscle  
 myc- fungus  
 mycel- threadlike  
 myriad- many  
 moll- soft  
 nas- nose  
 necr- corpse, dead  
 nemat- thread  
 neo- new, recent  
 nephr- kidney  
 -ner- moist, liquid  
 neur- nerve  
 noct-, nov- night  
 -node knot  
 -nom-, -nomy ordered knowledge, law  
 non- not  
 not- back  
 nuc- center  
 ob- against  
 ocul- eye  
 oct- eight  
 odont- tooth  
 -ond- form, appearance  
 olf- smell  
 oligo- few, little  
 -oma abnormal condition, tumor  
 omni- all  
 onc- mass, tumor

oo-  
 ophthalm-  
 opt-  
 orb-  
 -orium, -ory  
 ornith-  
 orth-  
 oscu-  
 -osis  
 oste-  
 oto-  
 -ous  
 ov-  
 oxy-  
 pachy-  
 paleo-  
 palm-  
 pan-  
 par-, para-  
 path-, -pathy  
 -ped-  
 -ped-  
 pent-  
 per-  
 peri-  
 permea-  
 phag-  
 pheno-  
 -phil-  
 phon-, -phone  
 -phore-, pher-  
 photo-  
 phren-  
 phyc-  
 phyl-  
 -phyll  
 physis-  
 phyt-, phyte  
 pino-  
 pinni-  
 plan-  
 plasm-, -plast-  
 platy-  
 pleur-  
 pneumo-  
 -pod  
 ply-  
 por-  
 port-  
 post-  
 pom-  
 pre-  
 prim-  
 pro-  
 p[ro]to-  
 pseudo-  
 psych-  
 pter-  
 pulmo-  
 puls-  
 pyr-  
 quadr-  
 quin-  
 radi-  
 re-  
 rect-  
 ren-  
 ret-  
 rhag-, -rrhage  
 rhe-, rhea  
 rhin-  
 rhiz-  
 rhodo-  
 roto-  
 rubr-  
 sacchar-  
 sapr-  
 sarc-

egg  
 eye  
 eye  
 circle, round, ring  
 place for something  
 bird  
 straight, correct, right  
 mouth  
 abnormal condition  
 bone  
 ear  
 full of  
 egg  
 sharp, acid, oxygen  
 thick  
 old, ancient  
 broad, flat  
 all  
 beside, near, equal  
 disease, suffering  
 foot  
 child  
 five  
 through  
 around  
 pas, go  
 eat  
 show  
 loving, fond of  
 sound  
 bear, carry  
 light  
 mind, diaphragm  
 seaweed, algae  
 related group  
 leaf  
 nature, natural qualities  
 platin  
 drink  
 feather  
 roaming, wandering  
 form, formed into  
 flat  
 lung, rib, side  
 lungs, air  
 foot  
 many, several  
 opening  
 carry  
 after, behind  
 fruit  
 before, ahead of time  
 first  
 forward, favoring, before  
 first, primary  
 false, deceptive  
 mind  
 having wings or fins  
 lung  
 drive, push  
 heat, fire  
 four  
 five  
 ray  
 again, back  
 right, correct  
 kidney  
 net, made like a net  
 burst forth  
 flow  
 nose  
 root  
 rose  
 wheel  
 red  
 sugar  
 rotten  
 flesh

saur-  
 schis-, schiz-  
 sci-  
 scler-  
 -scop-  
 -scribe-, -script  
 semi-  
 sept-  
 -septic  
 sess-  
 sex-  
 -sis  
 sol-  
 solv-  
 som-, somat-, -some  
 somn-  
 son-  
 spec-, spic-  
 -sperm-  
 -spher-  
 spir-, -spire  
 -spor-  
 stat-, -stasis  
 stell-  
 sten-  
 stern-  
 stom-, -stome  
 strat-  
 stereo-  
 strict-  
 styl-  
 sub-  
 super-, sur-  
 sym-, syn-  
 tachy-  
 tarso-  
 tax-  
 tele-  
 telo-  
 terr-  
 tetra-  
 thall-  
 -the-, -thes-  
 -thel-  
 therm-  
 -tom-  
 toxico-  
 top-  
 trache-  
 trans-  
 tri-  
 trich-  
 -trop-  
 -troph-  
 turb-  
 -ul-, -ule  
 ultra-  
 uni-  
 ur-  
 -ura  
 vas-  
 vect-  
 ven-, vent-  
 ventr-  
 -verge  
 vig-  
 vit-, viv-  
 volv-  
 -vor-  
 xanth-  
 xero-  
 xyl-  
 zo-, -zoa  
 zyg-  
 zym-

lizard  
 split, divide  
 know  
 hard  
 look, device for seeing  
 write  
 half, partly  
 partition, seven  
 infection, putrefaction  
 sit  
 six  
 condition, state  
 sun  
 loosen, free  
 body  
 sleep  
 sound  
 look at  
 seed  
 ball, round  
 breathe  
 seed  
 standing, placed, staying  
 stars  
 narrow  
 chest, breast  
 mouth  
 strat  
 solid, 3-dimensional  
 drawn tight  
 pillar  
 under, below  
 over, above, on top  
 together  
 quick, swift  
 ankle  
 arrange, put in order  
 far off, distant  
 end  
 earth, land  
 four  
 young shoot  
 put  
 cover a surface  
 heat  
 cut, slice  
 poison  
 place  
 windpipe  
 across  
 three  
 hair  
 turn, change  
 nourishment, one who feels  
 whirl  
 diminutive, small  
 beyond  
 one  
 urine  
 tail  
 vessel  
 carry  
 come  
 belly, underside  
 turn, slant  
 strong  
 life  
 roll, wander  
 devour, eat  
 yellow  
 dry  
 wood  
 animal  
 joined together  
 yeast