

# Biology Vocabulary Root Words

## Semester 1

<u>Week</u>	<u>Root</u>	<u>Definition</u>	<u>Examples</u>
1	1 micro-	small	micron, microscope
	2 mono-	one, single	monorail, monosaccharide
	3 multi-	many	multiply, multitude
	4 anthropo-	man	anthropology, anthropomorphism
	5 -logy	study of, science of	biology, zoology
2	6 phono-	sound	phonograph, microphone
	7 photo-	light	photograph, photosphere
	8 post-	after	postpone, post meridian (pm)
	9 pre-	before	prevent, prepare
	10 anti-	against	antidote, antibiotic
3	11 pseudo-	FALSE	pseudonym, pseudopod
	12 thermo-	temperature, heat	thermal, thermometer
	13 psycho-	mind	psychology, psychic
	14 helio-	sun	helium, heliocentric
	15 macro-	large	macromolecule, macroscopic
4	16 bio-	life	autobiography, biome
	17 chrono-	time	chronological, chronograph
	18 circum-	around	circumpolar, circumnavigate
	19 auto-	self	autograph, automobile
	20 aqua-	water	aquatic, aquarium
5	21 poly-	many	polygraph, polygon
	22 quad-	four	quadrant, quadrilateral
	23 neuro-	nerve	neuron, neurosurgeon
	24 corpus-	body	corpse, corpuscle
	25 derm-	skin	epidermis, dermatologist
6	26 hemi-	half	hemisphere, hemiptera
	27 avi-	bird	aviation, aviary
	28 chlor-	green	chlorophyll, chlorine
	29 ophthalmo-	eye	ophthalmologist, ophthalmic
	30 sub-	below, under	submarine, submit
7	31 entomo-	insect	entomology, entomopathogen
	32 contra-	against	contrast, contradict
	33 cardi-	heart	cardiac, cardiovascular
	34 magni-	great, large	magnify, magnificent
	35 hypo-	below, under	hypodermic, hypoglycemic
8	36 zoo-	animal	zoology, zooplankton
	37 sphere-	round, globe	spherical, chromosphere
	38 ornitho-	bird	ornithology
	39 mort-	death	mortician, mortal
	40 karyo-	nucleus	eukaryotic, karyotype
9	41 octo-	eight	October, octopus
	42 sapro-	dead, rotten	saprophyte, saprogenic
	43 morpho-	form	morphology, anthropomorphic
	44 epi-	upon	epidermis, epilogue
	45 hetero-	mixed	heterogeneous, heterodox

10	46 entero-	intestine	enteritis, enteron
	47 -ectomy	cut out	tonsillectomy, appendectomy
	48 denti-, dont-	tooth, teeth	dentist, orthodontist
	49 -phil(e)	loving	bibliophile, hydrophilic
	50 -onym	name	synonym, pseudonym
11	51 neo-	new	neonatal, neoplasm
	52 arthro-	joint	arthritis, arthropod
	53 gastro-	stomach	gastric, gastropod
	54 hepato-	liver	hepatitis, hepatophyta
	55 dys-	faulty, bad	dysfunction, dysentery
12	56 dis-	bad, evil	disease, disaster
	57 chrom-	color	chromosome, chromatograph
	58 luna-	moon	lunar, lunatic
	59 exo-	outside	exobiology, exodus
	60 som(e)	body	psychosomatic, episome
13	61 super-	over, above	superior, supervisor
	62 intro-	within	introduction, introvert
	63 de-	down, away	decline, depress
	64 ex-	out of, from	exit, expose
	65 nephro-	kidney	nephritis, nephron
14	66 per-	through	permeate, impermeable
	67 apo-	away, from	apogee, apostate
	68 -itis	inflammation	laryngitis, appendicitis
	69 -osis	abnormal state	halitosis, necrosis
	70 natal-	birth	prenatal, natality
15	71 frater-	brother	fraternity, fraternal
	72 scribo-	write	description. Inscribe
	73 gen-	race, kind	gender, genus
	74 pedi-, pod-	foot	tripod, pedestrian
	75 com-	within	communicate, commerce

# Biology Vocabulary Root Words

## Semester 2

<u>Week</u>	<u>Root</u>	<u>Definition</u>	<u>Examples</u>
1	76 morpho-	form	morphology, anthropomorphic
	77 cyst-	bladder, sac	heterocyst, cystocarp
	78 scler-	hard	sclereid, sclerosis
	79 oto-	ear	otoscope, otology
	80 rhino-	nose	rhinitis, rhinoceros
2	81 baro-	pressure	barometer, barograph
	82 iso-	equal	isoptera, isometric
	83 ante-	before	ante meridian (am), antedate
	84 cyclo-	circular	cyclone, bicycle
	85 geo-	earth	geology, geography
3	86 hemo-	blood	hemoglobin, hemostat
	87 hexa-	six	hexose, hexagon
	88 ambi-	both	ambivalent, ambidextrous
	89 herb-	plant	herbivore, herbal
	90 bi-	two	bivalve, binocular
4	91 retro-	backwards	retract, retroactive
	92 trans-	across	transparent, translate
	93 osteo-	bone	osteoporosis, osteopathy
	94 non-	not	nonfat, nonsense
	95 vita-	life	vital, vitamin
5	96 nebul-	cloud, cloudy	nebula, nebulous
	97 scope-	view	telescope, microscope
	98 tele-	far, distant	television, telephone
	99 astro-, aster-	star	astronomy, asteroid
	100 inter-	between	interfere, interpret
6	101 pteron-	wing	pterodactyl, diptera
	102 sect-	part, divide	dissect, section
	103 hydro-	water	hydrogen, hydrology
	104 carni-	flesh	carnivore, carnage
	105 cyano-	dark blue	cyanobacteria, cyanosis
7	106 graph-	write	graphology, graphite
	107 penta-	five	pentagon, pentose
	108 ortho-	straight	orthoptera, orthodox
	109 meter-	measure	thermometer, speedometer
	110 lysis-	break up, loosen	analysis, photolysis
8	111 litho-	rock	lithosphere, lithograph
	112 ambul-	walk	ambulate, ambulance
	113 vor(e)-	eater	voracious, omnivore
	114 somn-	sleep	insomnia, somnabulist
	115 ichthyo-	fish	ichthyology, ichthyosaur
9	116 cephalo-	head	cephalothoraxes, cephalic
	117 intra-	within	intramural, intravenous
	118 hyper-	over, excess	hyperactive, hypersensitive
	119 patho-	disease	pathology, pathogen
	120 homo-	same	homogenize, homoptera

10	121 mal-	bad, evil	maltreatment, malevolent
	122 manus-	hand	manuscript, manual
	123 anima-	breath, life	animal, animated
	124 arche-	beginning, first in order	archeology, archbishop
	125 pneum-	lung	pneumonia, pneumatic
11	126 omni-	all	omnibus, omnivore
	127 ana-	back, up, again	anachronism, anaphase
	128 naut-	sailor	nautilus, astronaut
	129 son(I)-	sound	sonic, sonorous
	130 kine-	motion	kinetic, kinematics
12	131 halo-	salt	halophyte, halocline
	132 biblio-	books	bibliography, bibliophile
	133 andro-	male	androgynous, androgen
	134 gyn-	female	gynecologist, gynoecium
	135 vivo-	life	vivid, vivisect
13	136 diplo-	double, twofold	diplococcal, diploid
	137 phyte-	plant	chlorophyta, phytotoxin
	138 proto-	first	protozoa, prototype
	139 lacto-	milk	lactic, lactose
	140 tropi-	turning	heliotropic, hydrotropic
14	141 meta-	among, change	metamorphosis, metacarpal
	142 oculo-	eye	ocular, oculist
	143 plasm-	formed, molded	protoplasm, nucleoplasm
	144 mis-	bad, ill	misanthrope, misprint
	145 sperm-	seed	spermatophyte, angiosperm
15	146 gymnos-	naked	gymnasium, gymnosperm
	147 cyto-	cell	cytoplasm, cytology
	148 germ-	sprout	germinate, germicide
	149 cide-	killing	pesticide, homicide
	150 sym-, syn-	together, with	symbiosis, synthesis