HONORS BIOLOGY ROOT WORDS

To learn Biology, you must be able to understand many unfamiliar, difficult terms. Nearly all of these terms are derived from Latin and Greek word parts. These words parts include roots (core part), prefixes (beginning part), and suffixes (end part). But for sake of simplicity, we will refer to all word parts as "roots". Roots are the building blocks that join together to construct words. Each root has a specific meaning and they combine together to form words. Learning these meanings will greatly help you to understand scientific terminology.

Group 1	a-; an- abable ac-, ad- , ataceous aero- agrial alb- amphi-; ambi ana- andr(o)- angio- anter- anti- anthropo-	not; without; lacking away from; out from capable of to; toward of or pertaining to air field; soil having the character of white both away; up; back; again man; masculine vessel, duct front against; opposite man; human	Group 4	-chem- chlor(o)- chondr(o)- chrom-; -chrome chron(o)cid-; -cis- circum- co-; com-; con-; cor- coni- contra-; counter- corp- cranicul-; -cule cuticycle; cyclcyst- cyt-; -cyte	dealing with chemicals green cartilage color time cut; kill; fall around; about with; together cone against body skull small; diminutive skin ring; circle sac; pouch cell; hollow container
Group	2011-	water	Group	-dactyl-: digit-	finger: toe

Group 2	aqu- arachni- archaeo- arteri- arthrary; -arium -ase -asis astroate; -ation audi- auto- avi- baro-	water spider primitive; ancient artery joint; articulation a place for; related to enzyme state or condition star the act of hear self bird pressure	Group 5	-dactyl-; digit- de- deca-; deka- deci- (Latin) dendr- dent-; -odont -derm- di-; dipl-; du- di-; dia- di-; dis-; dif- dorm- dorsduc-; -duct- dys-	finger; toe away from; down ten tenth; ten tree; branching tooth; teeth skin two; double through; across apart; separate sleep back to lead bad; abnormal; difficult; ill
	baro- bi- (Latin) bi; bio- (Greek)	pressure two; twice life; living		dys-	bad; abnormal; difficult; ill

Group	brachi-	arm	Group	ec-; ecto-	out of; away from; outside of
3	-brev-	short	6	eco-	environment; habitat
	bronch-	windpipe		en-; endo-; ent-; eso-	in; into; within; inner
	calor-	heat		entom(o)-	insects
	carcin-	cancer		epi-	upon; above; over
	cardi-	heart		erythro-	red
	carn-	meat; flesh		eu-	well; good; true; normal
	carpal-	wrist		ex-; exo-	out of; away from
	cata-	breakdown; downward		extra-	beyond; outside
	-cell-	chamber; small room		fibr-; fil-	fiber; thread
	cen-; -cene	now; recent		-fid; fiss-	split; divided into
	cent(i)-	hundred(th)		-flect; -flex	bend
	centr-	center		flor-	flower
	-cephal-	head		flu-; fluct-; -flux-	flow
	cervi-	neck		-form-	shape
				fract-; frag-	break

Group 7	-gam- gastr(o)- geo- -gen; -genic -gene- -gest- gluc-; glyc- -gon -grad-; -gree; -gress -gram; -graph -grav- gymno- gyn(o)-; gyne-	marriage stomach land; earth producer; cause origin; birth; descent carry; produce sweet; sugar angle; corner step record; writing heavy naked; bare female	Group 11	macr(o)- mal- mamm-; mast- marg- mega- mela-; melan- men(o)mer mes(o)- met-; metameter; -metry micro- milli- mis-	large bad, evil breast border; edge million; great black; dark month part middle; intermediate between; along; after measurement small; millionth thousandth wrong; incorrect
Group 8	-hal-; -hale hapl- hem-; -emia hemi- hepat- herpet- herb- hetero- hex- hist- homo-; -hum- homo-; homeo- hydr(o)- hyper- hypo-	breathe; breath single blood half liver reptile grass; plants different; other six tissue; woven man; human same; alike water above; beyond; over below; under; less	Group 12	mortmot- morph- multi- mut- my(o)- myc(o)moll- narc- nas(o)- necr(o)- neo- nephr(o)- neur-	one; single death move shape; form; structure many change muscle fungus soft to numb; deaden nose dead; corpse new; recent kidney nerve
Group 9	-ia; -ism -iac ichthy- ign- in-; il-; im-; irin(e) infra-; infer- inter- intra- isoist -itis -ium	state; condition person afflicted with disease fish fire; burn not; toward, into, within of or pertaining to; made of below; beneath between within; inside equal; same person who deals with inflammation; disease body part; type of element	Group 13	noct-; noxnom-; -nomy non- nuc- ob- ocul-; opt-; -opia octoid olf-; olfactoma; onc(o)- omni- oo-; ov-; o- ora- orb- ornith- orth-	night name; arrangement not center against eye eight form; shape; appearance smell tumor; growth; cancer all egg mouth circle; round; ring bird straight; correct; right
Group 10	-kary- kilo- kine- lact- latless leuc-; leuk- liga- lingu- lip(o)- loc(o)logist -(o)logy -luminlys-; -lyt-; -lyst	cell nucleus; body thousand move milk side without white to bind tongue fat place one who studies the study of light; bright decompose; split; dissolve	Group 14	-ose -osis oste(o)ous; -ious oxy- paleo- pan- par-; para- path-; -pathy paed-; ped- (Greek) -ped-; -pod (Latin) pent- per- peri-	sugar; carbohydrate abnormal condition bone full of sharp; acute, acid, oxygen old; ancient all beside; near; equal disease; suffering child; children foot; feet five through around

Group -phase stage; condition 15 phaq(o)phen(o)show loving; fond of -philfear; hate; dread -phobia; -phobic phon-; -phone sound photolight -phyll leaf nature: natural physiphyt(o)-; -phyte plant -plasm-; -plastform; formed into plat(y)flat pneumo-; pulmolung; rib; air many; several polyopenina porpostafter: behind Group prebefore: prior to 16 prim-; protofirst; primary forward; favoring; before propseud(o)false; deceptive psych(o)mind drive; push -pulsheat; fire pyrquadrfour

five

kidney

nose

lizard

know

again; back

sugar; sweet

Group tachyquick; swift arrange; put in order 19 taxtelefar off; distant teloend earth; land -terrtetrfour -thermheat -thoracchest -tom-; -tomy cut; split tox(ico)poison trache(o)windpipe transacross three tritrichhair turn; change -trop--trophnourishment; feed

look at

ball: round

to draw tight

under: below

together

standing; staying

solid: 3-dimensional

over; above; on top

breathe

chest

mouth

layer

seed

hard 17 -sclerolook; observe -scop--scribe; -scriptwrite cut -sectsemihalf; partly septpartition; seven infection -septicsexsix condition; state -sis; -osis solsun loosen; free -solvsomat-; -some body sleep -somnsound son-

quin-

re-

ren-

rhin(o)-

-saur-

Group -sci-

-sacchar-

Group -ul-; -ule
20 ultraunivas(o)ventr-verge
vigvit-; viv-volv-vorxanthzo-; -zoa
zyg(o)-

Group spec-; spic-

-spher-

stern-

strat-

-strict-

stereo-

sym-; syn-

sub-

spir-; -spire

stat-; -stasis

stom-; -stome

super-; supra-; sur-

-sperm-; -spor-

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small; diminutive beyond one vessel belly; underside turn; slant strong life; alive change; turn; roll devour; eat yellow animal joined together; yolk