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Root Words

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Introduction

Biological terminology can be as overwhelming to learn as a foreign language. Having a Root Word List can help in decoding the biological foreign language.

Concepts

- Word derivation

Materials

Greek and Latin Root Word List

Procedure

Copy the list found on the reverse side of this BioFax and distribute for classroom use.

Tips

- Create a list of words and have students derive a “literal-root” definition of the word.

Example: Microcephalic (small head)
micro— small
cephalo— head

- Create a list of definitions and have students derive a word.

Example: Red blood cell (erythrocyte)
erythros— red
cyte— cell

Reference

Kessler, J. W. “An Alternative Approach to Teaching Biological Terminology”; *The American Biology Teacher*, 1999, 61, 9.

Greek and Latin Root Words

Root (Source)

a, an (G)
 ambi (L)
 amphi (G)
 andro (G)
 ante (L)
 anti (G)
 aqua (L)
 archeo (G)
 arthro (G)
 auto (G)
 bi (L)
 bio (G)
 cephal, cephalo (L)
 chromo (G)
 cide (L)
 circum, circa (L)
 corpus (L)
 crypto (G)
 cyte, cyto (G)
 derm, dermis (G)
 di (G)
 dys (G)
 e, ec, ef, ex (L)
 ecto (G)
 endon, endo (G)
 epi (G)
 erythros (G)
 exo (G)
 gam, gamo (G)
 genesis, genic (L)
 genos, gen, geny (G)
 herba (L)
 heteros (G)
 homo (L)
 homos, homeos (G)
 hydro, hudor (G)
 hyper (G)
 hypo (G)
 intra (L)
 intro (L)
 itis (G)
 logos, logy (G)
 lys, lysis (L)
 mikros, micro (G)
 monos (G)
 morphe (G)
 neuro (G)
 oo (G)
 ovum, ovi (L)
 para (G)
 pedi (G)
 pes, pedis, pod (L)
 photo, phos, phot (G)
 post (L)
 semi (L)
 skleros (G)
 soma (G)
 sub, sup (L)
 super (L)
 supra (L)
 tetra (L)
 tox, toxikon (G)
 tri (L)
 trophe (G)
 uni, unis (L)
 zo, zoon (G)

Meaning

without, not
 on both sides
 both, doubly
 male, masculine
 before, in front of
 against
 water
 original, ancient
 joint
 self
 two, twice, double
 life, living
 head
 color
 killer, killing
 around, about
 body
 hidden
 cell, hollow
 skin
 two, double
 bad
 out of, from
 outside of, external
 in, internal
 upon, above
 red
 outer, external
 marriage, sexual
 origin, birth, producing
 race, kind
 grass, plants
 different, other
 man
 alike, same
 water
 above, beyond
 below, under
 within, inside
 into, within
 disease, inflammation
 the study of
 dissolution, destruction
 small
 one, single
 form, shape
 nerve
 beginning, egg
 egg
 beside, near
 beginning, child
 foot
 light
 after, behind
 half
 hard
 body
 below, under, smaller than
 above, upper
 above, upon
 four
 poison
 three
 to feed or eat
 one
 animal

Example

abiotic, anaerobic, asymmetry, atrophy
 ambidextrous, ambivalent
 amphibian, amphiblastula
 androgen, android, Andros
 antedate, anteflexion, anterior
 antibody, antigen
 aqueous, aquifer
Archaeopteryx, archegonium, archeology
 arthritis, arthrology, arthropod
 autogenous, automatic, autonomic
 bilateral, bipedal, pipinnate, bivalve
 biogenesis, biogeography, biology
 cephalic, cephalothorax
 chromatin, chromosome
 hericide, insecticide, pesticide
 circadian, circumference
 corpus luteum, corpuscles
 cryptic, cryptogram, cryptorchidism
 cytoplasm, leukocyte
 dermal, Echinodermata, ectoderm
 diatom, dihybrid, disaccharide
 dysentery, dysfunction, dystrophy
 eccentric, emit, excretion, exit, extinction
 ectocarpus, ectoparasite, ectoplasm
 endoderm, endopodite, endosperm
 epidermis, epigenesis, epiphyte
 erythrocyte, phycoerythrin
 exoskeleton, exothermic
 gamete, gametophyte, gamogenesis
 carcinogenic, cytogenic, mutagenic
 genealogy, genetics, genotype
 herbaceous, herbal, herbivore
 heterotrophic, heterosexual, heterozygous
 hominid, *Homo sapiens*
 homogeneous, homologous, homozygous
 hydrology
 hyperactive, hyperglycemia, hypertonic
 hypodermic, hypoglycemia, hypotonic
 intracellular
 introversion
 appendicitis, arthritis, hepatitis
 biology, zoology
 hemolysis, hydrolysis, lysosome
 microbe, microscope, microspore
 monocular, monocotyledon, monoecious
 ectomorph, lagomorph, morphology
 neurology, neuromuscular, neuron
 oocyte, oogenesis
 ovary, oviduct, ovipositor, ovule
 paramedic, paranoid, parasite
 pediatrician, pediatrics, pedigree
 bipedal, pedal
 photosynthesis
 posterior, postnatal, postpartum
 semicircle, semilunar
 sclera, *Scleria*, sclerenchyma, sclerotic
 centrosome, lysosome, somatic, somite
 subspecies, supination
 supercerebral, superior
 supraorbital, suprarenal
 tetrapod, tetraspore
 antitoxin, toxic, toxin
 triploid, tripod
 autotroph, dystrophy, heterotroph
 unicellular, uniform, united
 holozoic, protozoa, zoology, zoospore



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