**Scientific Root Words, Prefixes, & Suffixes**

**a-, an**- not, without, lacking, deficient

**ab**- away from, out from

**able** - capable of

**ac** - to, toward

**aceous** - of or pertaining to

**acou-, acous**- hear

**ad-** to, toward

**aden**- gland

**adip**- fat

**aero**- air

**agri**- field, soil

**al** - having the character of

**alb**- white

**alg -algia** - pain

**alto**- high

**ambi**- both

**ameb**- change, alternation

**amni**- fetal membrane

**amphi- ampho**- both

**amyl**- starch

**ana**- up, back, again

**andro**- man, masculine

**anemo**- wind

**ang**- choke, feel pain

**angi**- blood, vessel, duct

**ante**- before, ahead of time

**anter**- front

**anther**- fatty deposit

**antho**- flower

**anti**- against, opposite

**anthropo**- man, human

**ap-, -aph**- touch

**apo-, ap-** away from

**aqu-** water

**archaeo**- primitive, ancient

**ary, -arium** - denotes a place for something

**arteri-** artery

**arthr**- joint, articulation

**ase** forms names of enzymes

**aster-, astr**- star

**ate** - verb form – the act of

**ation** noun form the act of

**atmo**- vapor

**audi**- hear

**aur**- ear

**auto**- self

**bacter-, bactr**- bacterium, stick, club

**barb**- beard

**baro** - weight

**bath**- depth, height

**bene-** well, good

**bi-** (Latin) two twice

**bi, bio-** (Greek) life, living

**blast**- sprout, germ, bud

**brachi**- arm

**brachy**- short

**brady**- slow

**branchi**- fin

**brev**- short

**bronch**- windpipe

**cac**-. bad

**calor** - heat

**capill** - hair

**capi** - head

**carcin** - cancer

**cardi** - heart

**carn** - meat, flesh

**carp** - fruit

**carpal** - wrist

**cata**- breakdown, downward

**caud**- tail

**cell**- chamber, small room

**cen -, cene** - now, recent

**cente** - pierce

**centi**- hudredth

**centr** - center

**cephal**- head

**cerat**- horn

**cerebr**- brain

**cervic**- neck

**chel**- claw

**chem**- dealing with chemicals

**chir**- hand

**chlor**- green

**chondr**- cartilage

**chrom**-, -chrome color

**chron**- time

**chym**- juice

**cid-, -cis**- cut, kill, fall

**circa**-, **circum**- around, about

**cirru**- hairlike curls

**co, com** - with, together

**cocc**- seed, berry

**coel**- hollow

**coll**- glue

**coni**- cone

**contra**- against

**corp**- body

**cort-, cortic**- outer layer

**cosmo-** world, order, form

**cotyl**- cup

**counter**- against

**crani**- skull

**cresc**-, cret- begin to grow

**crypt**- hidden, covered

**cul-, cule** - small, diminutive

**cumul-** heaped

**cuti**- skin

**cyan**- blue

**cycle, cycl**- ring, circle

**cyst-** sac, pouch, bladder

**cyt-, -cyte** cell, hollow container

**dactyl**- finger

**de-** away from, down

**deca**- ten

**deci-** tenth

**deliquesc**- become fluid

**demi**- half

**dendr**- tree

**dent-** tooth

**derm**- skin

**di-, dipl-** (Latin) two, double

**di-, dia**- (Greek) through, across, apart

**dia-** (Latin) day

**digit**- finger, toe

**din**- terrible

**dis**- apart, out

**dorm-** sleep

**dors-** back

**du-, duo-** two

**duct** - lead

**dynam**- power

**dys**- bad, abnormal, difficult

**ec-** out of, away from

**echin**- spiny, prickly

**eco-** house

**ecto-** outside of

**elle** - small

**emia** - blood

**en-, endo-, ent-** in, into, within

**en -** made of

**encephal-** brain

**enter-** intestine, gut

**entom**- insects

**eous** - nature of, like

**epi-** upon, above, over

**err**- wander, go astray

**erythro**- red

**escent** - becoming

**eso** - inward, within, inner

**eu** - true, normal

**eury** - widen

**ex** - out of, away from

**extra** - beyond, outside

**fer** - bear, carry, produce

**ferro** - iron

**fibr** - fiber, thread

**fid, fiss -** split, divided into

**flect**, -flex bend

**flor**- flower

**flu-,fluct-,flux** flow

**foli**- leaf

**fract**- break

**gam**- marriage

**gastr**- stomach

**geo-** land, earth

**gen, gine** - producer, former

**gene-** origin, birth

**gest-** carry, produce, bear

**glen-** eyeball

**glob-** ball, round

**gloss**- tongue

**gluc, glyc**- sweet, sugar

**glut**- buttock

**gnath**- jaw

**gon** - angle, corner

**grad**- step

**gram, graph**,- record, writing

**grav**- heavy

**gross**- thick

**gymno**- naked, bare

**gyn**- female

**gyr-** ring, circle, spiral

**hal, hale** - breathe, breath

**halo**- salt

**hapl**- simple

**hector**- hundred

**helminth**- worm

**hem**- blood

**hemi**- half

**hepar, hepat-** liver

**herb-** grass, plants

**hetero-** different, other

**hex**- six

**hibern**- winter

**hidr**- sweat

**hipp**- horse

**hist**- tissue

**holo**- entire, whole

**homo**- (Latin) man, human

**homo**- (Greek) same, alike

**hort**- garden

**hydr, hydro**- water

**hygr**- moist, wet

**hyper-** above, beyond over

**hyph**- weaving, web

**hyphno**- sleep

**hypo**- below, under, less

**hyster**- womb, uterus

**iae** - person afflicted with disease

**iasis** - disease, abnormal condition

**ic** - (adjective former)

**ichthy** - fish

**ign** - fire

**in-, il-, im-, ir-** not

**in-, il-, im-, ir**- to, toward, into

**in**- very, thoroughly

**ine** - of or pertaining to

**infra**- below, beneath

**inter**- within, inside

**intra**- between

**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, logos** - word

**logist** - one who studies

**logy, logos** - 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, mega -** 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

**neprho**- 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** - egg

**opthalm**- eye

**opt**- eye

**orb**- circle, round, ring

**orium, ory** - place for something

**ornith** - bird

**orth** - straight, correct, right

**oscu** - mouth

**osis** - abnormal condition

**oste-** bone

**oto**- ear

**ous** - full of

**ov**- egg

**oxy**- sharp, acid, oxygen

**pachy**- thick

**paleo**- old, ancient

**palm**- broad, flat

**pan**- all

**par, para**- beside, near, equal

**path, pathy** - disease, suffering

**ped** - foot

**ped**- child

**pent-** five

**per-** through

**peri-** around

**permea**- pass, go

**phag**- eat

**pheno**- show

**phil** - loving, fond of

**phon**, **phone** - sound

**phore, pher-** bear, carry

**photo**- light

**phren**- mind, diaphragm

**phyc**- seaweed, algae

**phyl**- related group

**phyll** - leaf

**physic**- nature, natural qualities

**phyt, phyte** - plant

**pino (pinein**) - drink

**pinni-** feather

**plan**- roaming, wandering

**plasm, plast**- form, formed into

**platy** - flat

**pleur-** lung, rib, side

**pneumo**- lungs, air

**pod** - foot

**ply**- many, several

**por-** opening

**port**- carry

**post**- after, behind

**pom** - fruit

**pre**- before, ahead of time

**prim -** first

**pro -** forward, favoring, before

**proto**- first, primary

**pseudo**- false, deceptive

**psych** - mind

**pter**- having wings or fins

pulmo- lung

**puls**- drive, push

**pyr**- heat, fire

**quadr**- four

**quin**- five

**radi**- ray

**re-** again, back

**rect**- right, correct

**ren-** kidney

**ret-** net, made like a net

**rhag, rrhage** - burst forth

**rhe, rrhea** - flow

**rhin-** nose

**rhiz-** root

**rhodo**- rose

**roto-** wheel

**rubr-** red

**sacchar-** sugar

**sapr**- rotten

**sarc**- flesh

**saur**- lizard

**schis, schiz-** split, divide

**sci** - know

**sclera** - hard

**scop** - look, device for seeing

**scribe**, -script write

**semi** - half, partly

**sept-** partition, seven

**septic** - infection, putrefaction

**sess** - sit

**sex**- six

**sis** - condition, state

**sol** - sun

**solv-** loosen, free

**som, somat-,** -some body

**somn-** sleep

**son** - sound

**spec , spic**- look at

**sperm**- seed

**spher**- ball, round

**spir-,** -spire breathe

**spor**- seed

**stat (stasis)** - standing, placed, staying

**stell**- stars

**sten-** narrow

**stern-** chest, breast

**stom**-, -stome mouth

**strat-** layers

**stereo**- solid, 3-dimensional

**strict-** drawn tight

**styl-** pillar

**sub-** under, below

**super-, sur-** over, above, on top

**sym, syn-** together

**tachy**- quick, swift

**tarso**- ankle

**tax**- arrange, put in order

**tele**- far off, distant

**telo**- end

**terr**- earth, land

**tetra-** four

**thall**- young shoot

**the, thes**- put

**thel-** cover a surface

**therm-** heat

**tom**- cut, slice

**toxico**- poison

**top**- place

**trache**- windpipe

**trans**- across

**tri**- three

**trich**- hair

**trop**- turn, change

**troph**- nourishment, one who feels

**turb** - whirl

**ul, -ule** diminutive, small

**ultra-** beyond

**uni-** one

**ur**- urine

**ura** - tail

**vas**- vessel

**vect**- carry

**ven, vent**- come

**ventr-** belly, underside

**verge** - turn, slant

**vig**- strong

**vit, viv**- life

**volv-** roll, wander

**vor-** devour, eat

**xanth**- yellow

**xero**- dry

**xyl-** wood

**zo, zoa -** animal

**zyg**- joined together

**zym**- yeast