

**Latin and Greek roots and their meanings**  
**(Roots found in many scientific terms)**

- agog: leader; inciter
- angle: corner, point of view
- anthropo: human
- aqua: water
- arch: chief; highest ranking
- astro: stars, space
- atmo; atmos: air; smoke; vapor
- audi: hear
- auto: self
- baro: weight
- bi; bin: two
- biblio: book
- bio: life
- cardio: heart
- centi: 1/100
- centric: center
- cephalo: head
- chromo: color
- chrono: time
- cosmo: universe
- cryo: cold
- crypto: hidden; secret
- cracy; crat: government
- cyclo: circle
- cyto: cells
- deci: 1/10
- demo: common people
- derm: skin
- di: two
- dic; dict: speech
- dox: belief; liturgy
- du: two
- dynamo: power; energy
- ecto: out
- exo: outside; out of
- endo: within
- eu: good; well
- gamy: marriage
- geo: earth
- gen: produced
- glyph: carvings
- gon: having a number of angles
- gram: unit of mass
- graph: written; drawn
- gyn: woman
- helio: Sun
- hemi: ½
- hemo: blood

- hetero: different
- hexa: six
- hiero: sacred
- homo: same
- hydro: water
- iatric: treatment
- idios: peculiar
- iso: equal
- kine: motion
- litho: stone
- logue: speech
- logy: the study of
- lysis: dissolving; decomposition
- macro: large
- mania: extreme desire
- manus: hand
- mega: large; million
- meta: with; among; after
- meter: measure
- metry: science of measuring
- micro: small
- milli: 1/1000
- mis: error
- miso: hate
- mono: one, single
- morph: shape
- multi: many
- necro: death
- neo: new
- neuro: nerve
- nomy: laws of
- octo: eight
- odont: tooth; teeth
- onym: word; name
- ortho: straight
- osis: action; process
- osteo: bones
- paleo: ancient
- pan: all
- par; parst: part
- patho: disease; suffering
- ped: foot; child
- pend: hang
- penta: five
- peri: around
- petro: stone
- phobia; phobe: extreme fear
- philo: love
- phono: sound; voice
- photo: light
- physio: natural

- plasm: cell forming material
- poly: many
- pod: foot
- polis: populated area
- port: carry
- proto: earliest form
- pseudo: false
- psych: mind
- pyro: fire
- quadra: four
- rupt: break
- scope: instrument of seeing
- semi: half; partia
- septum: enclosure, fence, wall
- soph: clever
- sphere: round-shaped
- stereo: 3-dimensional; solid
- syn or sym: same; with
- taxo: arrangement of
- techno: skill; art
- tele: distance
- theo: God
- therapy: treatment
- thermo: heat
- thorax: breastplate
- tomy: cutting of tissue
- toxic: poison
- tri: three
- trope: change; way; turn
- troph: nourishment
- type: kind
- uni: one
- zoo: animals