

Kingdom Plantae

All Plants: eukaryotic, multicellular, autotrophic, possess chlorophyll a and b, cellulose in cell walls, practically immotile.

Characteristic	Bryophyte	Pteridophyte	Gymnosperm	Angiosperm
<i>What Are</i>	Mosses, liverworts, hornworts	Ferns, horsetails, club mosses	Cycads, ginkos conifers	Flowering plants
<i>True leaves</i>	Does not have	Have (fronds)	Have (needles)	Have (many types)
<i>True roots</i>	Does not have	Have	Have	Have
<i>Vascular tissue</i>	Does not have	Have	Have	Have
<i>Conservation of water</i>	Waxy cuticle, ^{single stomata}	Waxy cuticle, stomata, guard cells	Waxy cuticle, stomata, guard cells, needle	Waxy cuticle, stomata, guard cells
<i>Flower</i>	Does not have	Does not have	Does not have	Have
<i>Fruit</i>	Does not have	Does not have	Does not have	Have
<i>Seed</i>	Does not have	Does not have	Have needle	Have covered
<i>Male Gametes</i>	Flagellated Sperm	Flagellated sperm	Pollen	Pollen
<i>Fertilization requires</i>	Film of water	water	Wind	Wind or animal pollinator
<i>Support</i>	Dense mat, rhizoid	Lignin, rhizome	Roots, wood and/or vascular tissue	Roots, wood and/or vascular tissue
<i>Dominant Phase</i>	Gametophyte	Sporophyte	Sporophyte	Sporophyte
<i>Where Lives</i>	Moist places	Slightly less moist place	anywhere	Anywhere