

Group	Sporophyte (2N) Multicellular -have "Sporangia" organ that makes spores (dominant with vascular plants)		Spores (N)		Gametophyte (N) Multicellular -have "Gametangia" organ that make gametes (dominant with bryophytes)		Gametes (N) Unicellular	
					Female Gametophyte w/ Archegonia (female gametangia)	Male Gametophyte w/ Antheridia (male gametangia)		
I. Bryophytes: (mosses, liverworts, hornworts)	Sporophyte w/ Sporangia		Spores		Female Gametophyte w/ Archegonia (female gametangia)	Male Gametophyte w/ Antheridia (male gametangia)	gametes	
II. Pteriophyte: Lycophyte (epiphytes)	Sporophyte w/ Strobili (sporangia)		Spores		Gametophyte w/archegonia and antheridia		gametes	
II. Pteriophyte: Pterophytes (fern)	Sporophyte w/ Sori (sporangia)		Spores		Gametophyte w/archegonia and antheridia		gametes	
II. Pteriophyte: Sphenophytes (horsetails)	Sporophyte w/ Strobili (sporangia)		Spores		Gametophyte w/archegonia and antheridia		gametes	
Seed Plants	Sporophyte w/ Megasporangia AKA nucellus (female) Megaspore Mother Cells = cells of megasporangia	Sporophyte w/ Microsporangia (male) Microspore Mother Cells = cells of microsporangia	Mega- spore (female)	Micro- spore (male)	Female gametophyte	Pollen = male gametophyte	egg	sperm
III. Gymnosperms	Sporophyte with Ovulate- Cones contain Megasporangia	Sporophyte with Pollen-Cones contain Microsporangia	Mega- spore (female)	Micro- spore (male)	Female Gametophyte	Pollen = male gametophyte	egg	sperm
IV. Angiosperms	See Ovule Below *	See Anther Below**	Mega- spore (female)	Micro- spore (male)	Female Gametophyte	Pollen = male gametophyte	egg	sperm

In Angiosperms:

\* Ovule: Megasporangium with its megaspore and the integument (seed coat tissue)

\*\* Anther: Microsporangium with its microspore