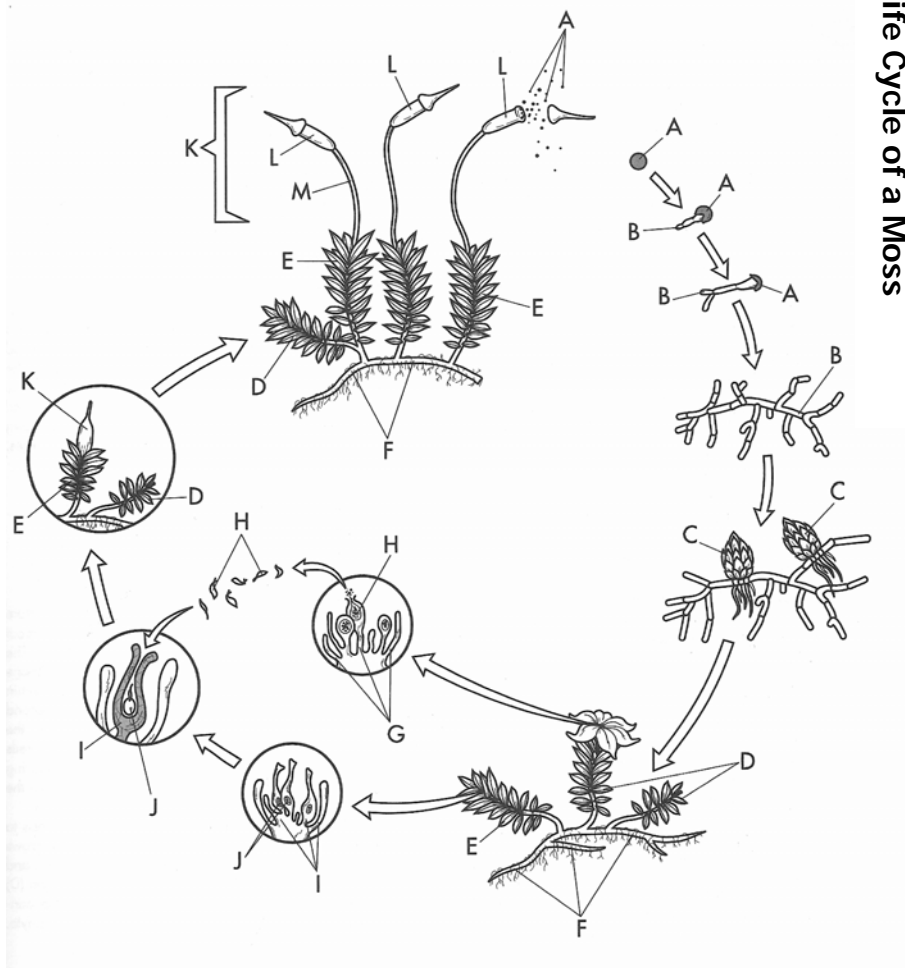


PLANT REPRODUCTION

1. Match the structure with the correct letter from the diagram.

- _____ Archegonia
- _____ Sperm cells
- _____ Stalk
- _____ Capsule
- _____ Male gametophyte
- _____ Gametophyte bud
- _____ Antheridia
- _____ Capsule
- _____ sporophyte
- _____ Rhizoids
- _____ Protonema
- _____ Egg cell
- _____ Spore
- _____ Female gametophyte



2. Review the life cycle of a typical moss plant by filling in the following blanks.

The dominant generation is the (a)_____.

Female gametophytes produce eggs in (b)_____.

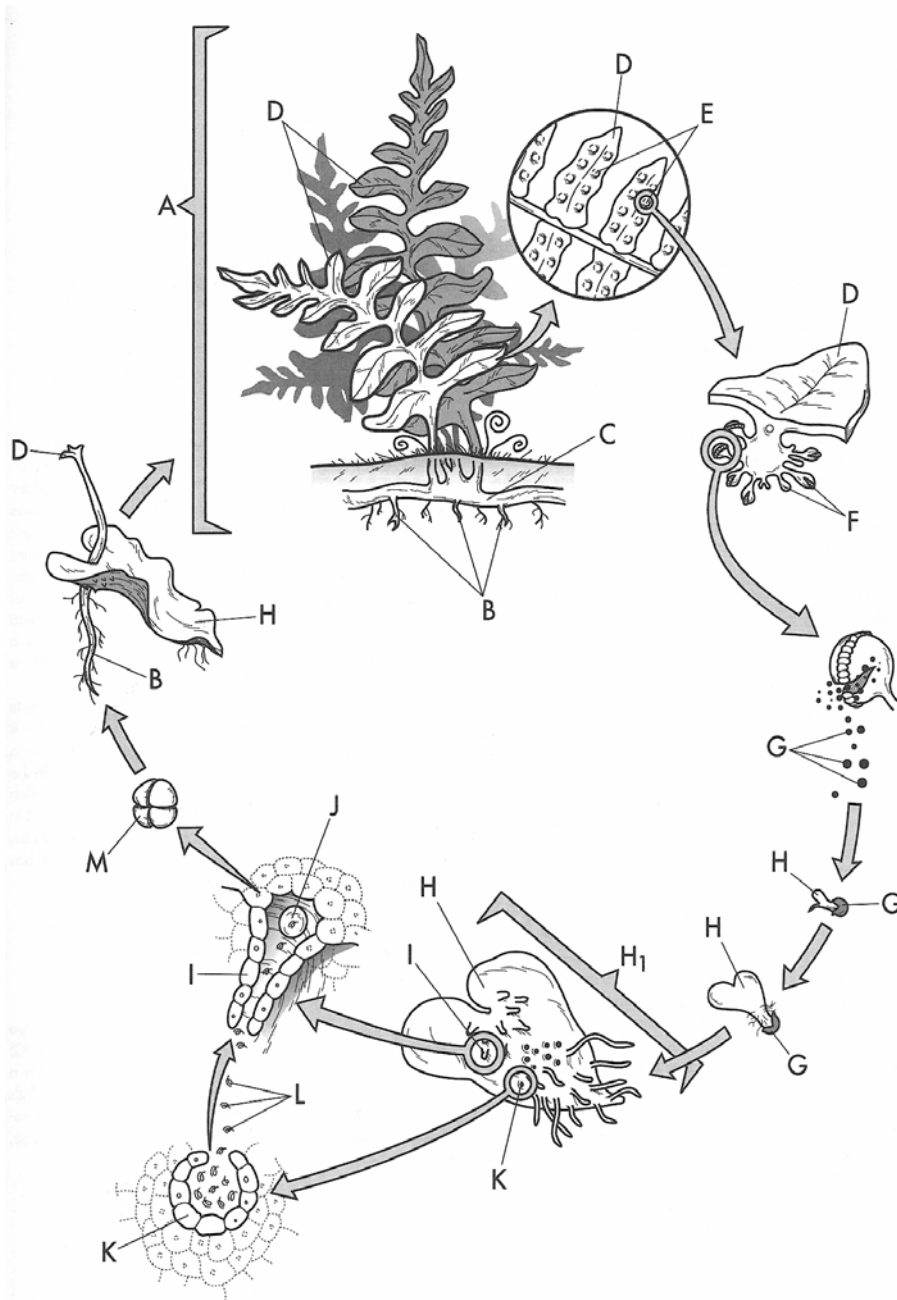
Male gametophytes produce sperm in (c)_____.

Sperm (d)_____ through the damp environment to fertilize the egg.

The zygote remains in the archegonium and grows into the (e)_____ still attached to the female gametophyte.

Spores are formed by the process of (f) _____ in the (g)_____.

When shed, spores develop into the (h)_____.



LIFE CYCLE OF A FERN

3. Match the structure with the correct letter from the diagram.

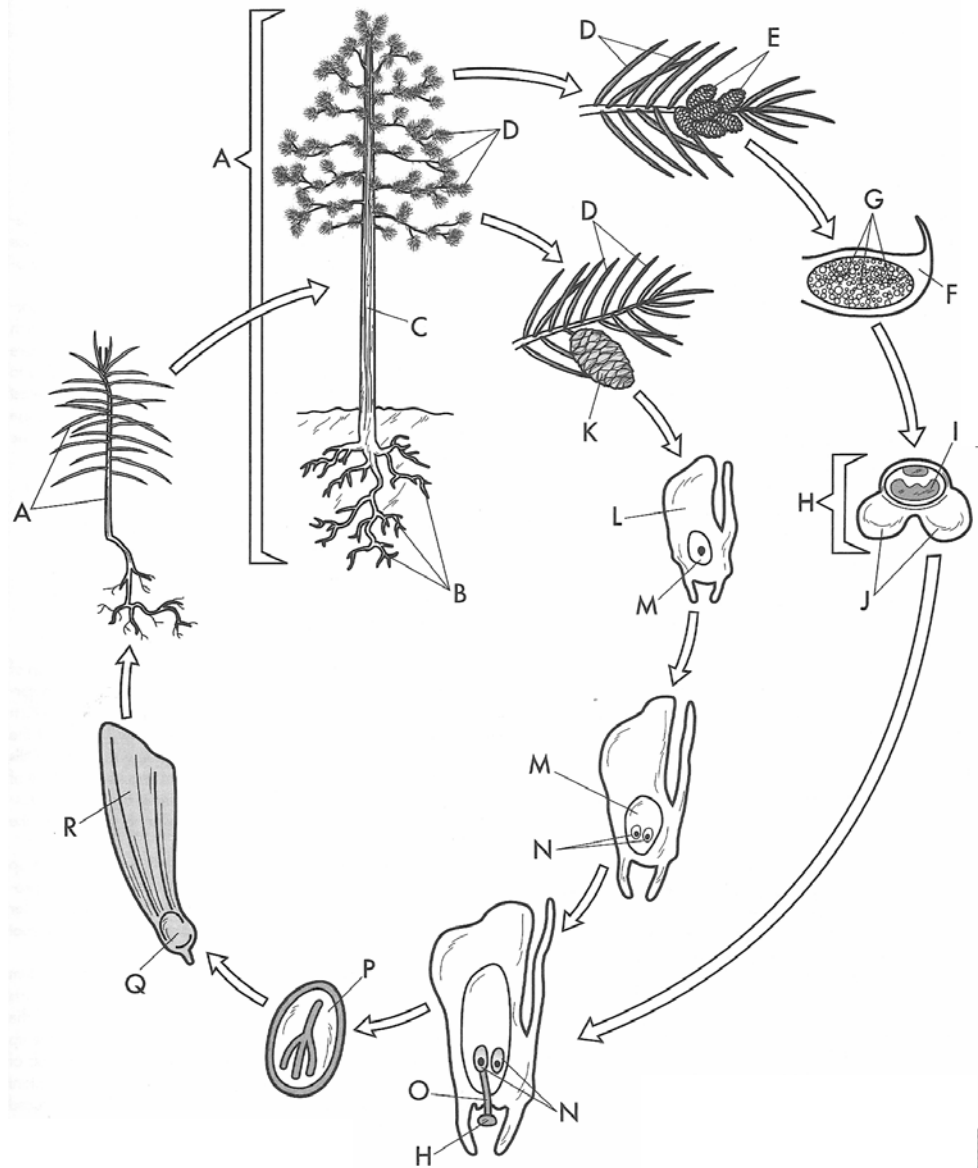
- _____ Leaves
- _____ Zygote
- _____ Sperm cells
- _____ Gametophyte
- _____ Prothallus
- _____ Rhizome
- _____ Roots
- _____ Spore
- _____ Sporangia
- _____ Antheridium
- _____ Egg cell
- _____ Sporophyte
- _____ Sori
- _____ Archegonium

4. Spores are produced by (mitosis/meiosis).
5. Gametes are produced by (mitosis/meiosis).
6. The archegonia and antheridia are (haploid/diploid).
7. The dominant generation of a fern is (sporophyte/gametophyte).
8. Explain how the life cycle of a fern differs from that of mosses:

Life Cycle of a Pine

9. Match the structure with the correct letter from the diagram.

- ___ Wing
- ___ Ovulate (Seed) Cone
- ___ Pollen Cones
- ___ Leaves
- ___ Air Sacs
- ___ Seed
- ___ Embryo
- ___ Male Gametophyte
- ___ Stem
- ___ Pollen Tube
- ___ Pollen Grain
- ___ Roots
- ___ Microspores
- ___ Female Gametophyte
- ___ Sporophyte
- ___ Sporangium
- ___ Ovule
- ___ Egg Cell



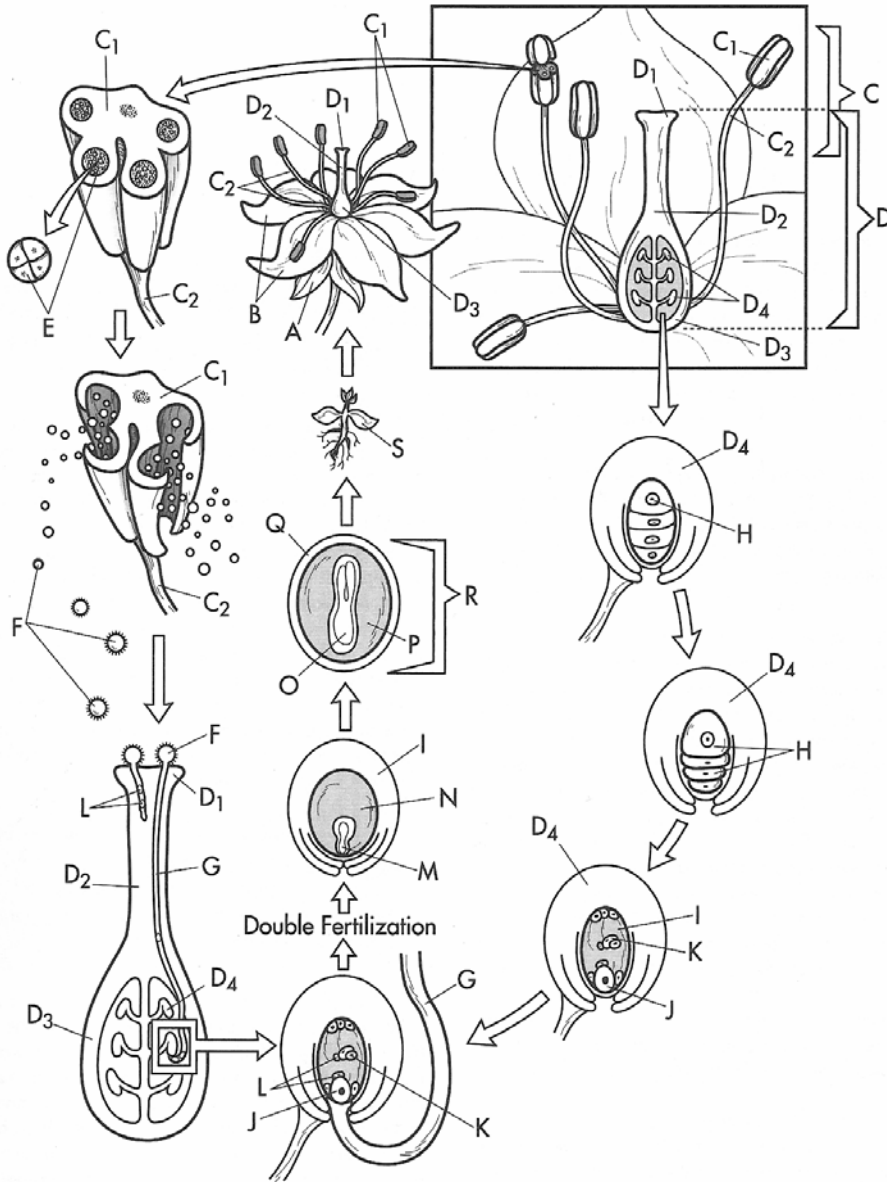
10. In the diagram of the life cycle of a pine, label structures where meiosis, pollination and fertilization take place. Draw a box around each term.

11. Which structures represent the gametophyte generation?

12. Why is the evolution of pollen an important terrestrial adaptation?

Life Cycle of a Flowering Plant

13. Match the structure with the correct letter from the diagram.



	Sepals
	Petals
	Ovary
	Sperm nuclei
	Ovule
	Zygote
	Stamen
	Microspores
	Endosperm
	Anther
	Pollen grain
	Embryo
	Endosperm tissue
	Pollen tube
	Filament
	Pistil
	Seed coat
	Megaspores
	Female gametophyte
	Seed
	Stigma
	Seedling
	Egg nucleus
	Style
	Polar nuclei

14. What constitutes the gametophyte generation of an angiosperm?

15. What does a seed consist of?

16. What is the possible function of double fertilization?