STUDY GUIDE: BIOLOGY IN FOCUS CHAPTER 26





Essential Questions

Fossils show that plants colonized land more than 470 million years ago

Key traits of:			
Plants	Algae		
Plants	Charophytes (algae)		
sporopollenin—			
Defining line between plants and algae:			

holly BowseR/IlexCanis.com

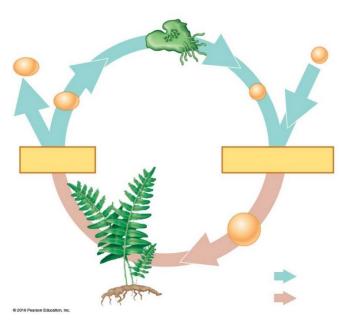
spores—

gametophyte—

sporophyte--

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Derived Traits of Plants: Alternation of generations--



Walled spores produced in sporangia—

Apica	l meristems—
, ipica	11110113101113

cuticle—

stomata—

Concept Check 26.1

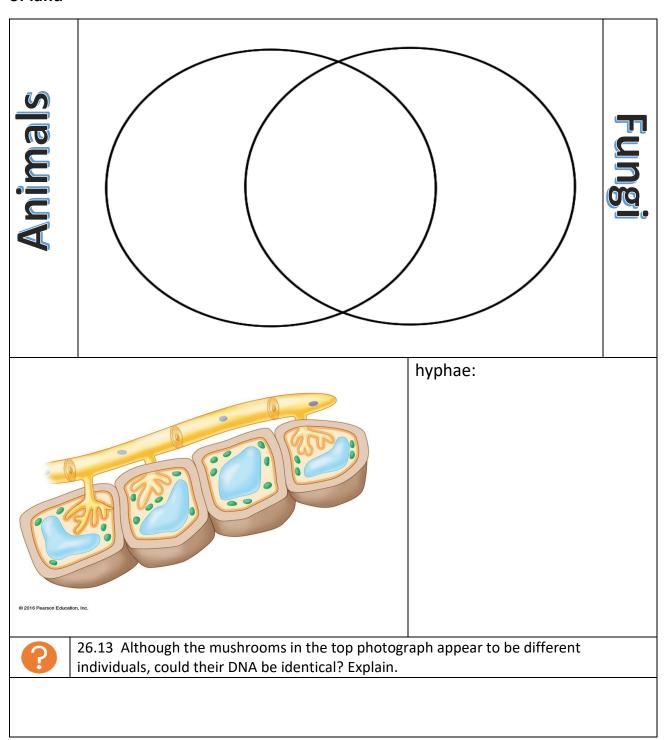
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Though not closely related to plants, fungi played a key role in the colonization of land



Morphological Adaptations:

Mycorrhizae—(Relationship to plants)

Diversification of Fungi

Diversification of Fullgi		
Known Sp	pecies	Hypothetical Estimate:
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Concept Check 26.2

- 1.
- 2.
- 3.

Early plants radiated into a diverse set of lineages

Bryophytes	Vascular Plants
xylem—	Diagram:
phloem—	
lignin—	
roots—	
leaves—	
Concept Check 26.3	
1.	

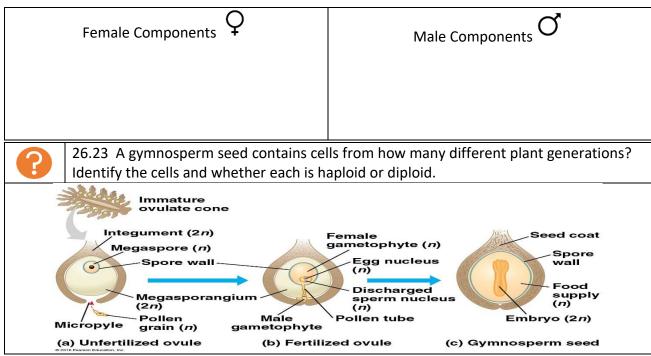
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Seeds and pollen grains are key adaptations for life on land

seed-

gymnosperms-

angiosperms—



Evolutionary advantage of seeds:

Early Seed Plants and the Rise of Gymnosperms

conifers—

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The Origin and Diversification of Angiosperms



fruit—

Angiosperm Evolution:

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- 1.
- 2.
- 3.

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THE COLONIZATION OF LAND

Plants and fungi fundamentally changed chemical cycling and biotic interactions lichen—
Physical Environment and Chemical Cycling: Summary
Biotic Interactions: Summary
Do endophytes benefit a woody plant? What If?
Concept Check 26.5
1.
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