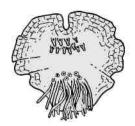
Name		Class	Date
Sectio	n 22-3 Se	edless Vascular F	Plants
pages 56	0-563)		
Key (	Concepts		
• How i	is vascular tissue	important to ferns and their rela	atives?
• What	are the character	ristics of the three phyla of seed	less vascular plants?
• What	are the stages in	the life cycles of ferns?	
<b>1.</b> What is	vascular tissue?		
2. What kin		ne first vascular plants have that	were specialized to conduct
3. Circle th	ne letter of each	sentence that is true about trache	eids.
a. They	are hollow cells	·	
<b>b.</b> They	are connected e	nd to end.	
c. Their	r thick cell walls	resist pressure.	
<b>d.</b> They	are the key cells	s of phloem.	
<b>4.</b> What is	the function of x	zylem?	
<b>5.</b> What is			
<b>6.</b> Is the fo	llowing sentence	e true or false? Phloem and xyle	em cannot move water and
nutrients	s against the force	ce of gravity.	
<b>7.</b> What is	lignin?		
Ferns ar	nd Their Rel	atives (pages 561-562)	
8. Complet	e the table about	plant structures.	
-		PLANT STRUCTURES	
Structure	Description		
Roots			
Leaves		_	

Stems

Name_		Class	Date
a b			of plants?
	the following sentence tru	e or false? Vascular plants l	have true roots and stems.
11. Th	ne fossilized remains of an	cient forests of club mosses	s exist today as huge beds of
<b>a. 13.</b> Fe	rns are members of phylu	c. leaves d. re	
15. Th 16. Fro	ne large leaves of ferns are onds grow from what fern	calledstructures?	
	what kind of habitats are	terns most abundant:	
<b>18.</b> Wl		-	other spore-bearing vascular
CO	ntainers called	aploid spores on the undersi	•
		oid or diploid?	

22. Label each drawing of a fern as either the sporophyte or the gametophyte.





- 23. Where are the antheridia and archegonia found in ferns?
- **24.** Why does fertilization in ferns require at least a thin film of water? \_\_\_\_\_
- **25.** Circle the letter of each sentence that is true about the life cycle of ferns.
  - **a.** The zygote grows into a new gametophyte.
  - **b.** The sporophyte is a heart-shaped, green structure.
  - c. Fern sporophytes often live several years.
  - **d.** When spores germinate, they grow into haploid gametophytes.