Name		Class	Date			
Sectio	on 22–3 Sc	eedless Vascula	r Plants			
	660–563)					
• How i	Concepts is vascular tissue in are the characterist	nportant to ferns and their relics of the three phyla of seedle life cycles of ferns?				
	<u> </u>	Tissue: A Transport S	System (nage 560)			
	nd of cells did the f	_	were specialized to conduct			
3. Circle th	he letter of each sentence that is true about tracheids.					
<b>a.</b> They	ey are hollow cells.					
<b>b.</b> They	ey are connected end to end.					
	thick cell walls resi	1				
	are the key cells of	-				
4. What is	the function of xyle	em?				
5. What is	the function of phlo	oem?				
	•	ue or false? Phloem and xyle	m cannot move water and			
	O	of gravity. —————	<del></del>			
7. What is	lignin?					
Ferns ar	nd Their Relati	ives (pages 561–562)				
8. Comple	te the table about p	lant structures.				
•	•	PLANT STRUCTURES				
Structure	Description					
Roots						
Leaves						
Stems						

Name	Class	Date _			
<ul><li>9. Spore-bearing vascular plants in</li><li>a</li><li>b</li></ul>	nclude what thre	e types of plants?			
<b>10.</b> Is the following sentence true or	r false? Vascular	plants have true roots and	d stems.		
11. The fossilized remains of ancier	nt forests of club	mosses exist today as hu	ge beds of		
<ul><li>12. Circle the letter of each structure</li><li>a. stems</li><li>b. cones</li><li>13. Ferns are members of phylum</li></ul>	c. leaves	d. roots			
<ul><li>14. What are rhizomes?</li><li>15. The large leaves of ferns are call</li></ul>					
<b>16.</b> Fronds grow from what fern str	5. Fronds grow from what fern structures?  7. In what kind of habitats are ferns most abundant?				
Life Cycle of Ferns (pages 5 18. What is the dominant stage in the plants?	he life cycle of fe	-	ng vascular		
<b>19.</b> Fern sporophytes produce haple containers called	-	e underside of their frond	s in tiny		
<b>20.</b> What are sori?					
<b>21.</b> Are the spores of ferns haploid	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.