Section Review 22-2

Reviewing Key Concepts

	Itiple Choice On the lines provided, write the let pletes the sentence.	ter of the answer that best					
com	1. The life cycle of bryophytes car	n be described as					
	,	c. independent of sunlight.					
	b. dependent on water.						
	2. Bryophytes are plants that lack	•					
		c. vascular tissue.					
	b. cell walls.	d. chlorophyll.					
	3. Bryophytes transport water by						
	a. osmosis.	c. active transport.					
	b. vascular tissue.	d. transpiration.					
Cor	npletion On the lines provided, complete the follo	owing sentences.					
4.	Three groups of bryophytes are	,					
	, and						
5.	The dominant, recognizable stage of the life of the	ycle in bryophytes is					
6.	The stage carries	out most of the plant's photosynthesis.					
	viewing Key Skills						
7.	7. Inferring Why can't a moss grow to be as tall as plants that have						
	vascular tissue?						
		and the property of the property of					
8.	3. Applying Concepts How does the structure of a rhizoid help it to absorb water and minerals?						
9.	Predicting Why aren't bryophytes found in deserts?						
10.	10. Applying Concepts Describe two human uses of mosses.						
		·					

Section Review 22-3

Reviewing Key Concepts

Multiple Choice *On the line provided, write the letter of the answer that best* completes the sentence or answers the question. 1. The function of xylem tissue is to a. carry water. c. carry out photosynthesis. b. carry nutrients and carbohydrates. d. store minerals. 2. Plants rely on phloem tissue for the transport of a. chlorophyll. c. nutrients and carbohydrates. b. water. d. sperm and egg cells. 3. All of the following are seedless vascular plants except a. club mosses. c. ferns. b. liverworts. d. horsetails. 4. Coal consists of the fossilized remains of the ancestors of a. club mosses. c. ferns. b. horsetails. d. Equisetum. 5. Which plants have stems containing abrasive silica crystals and are the only living genus of the phylum Arthrophyta? c. club mosses a. ferns d. horsetails b. lycophytes **6.** Which group of plants have underground stems called rhizomes and leaves called fronds? a. scouring rushes c. ferns d. club mosses b. arthrophytes 7. During the dominant stage of their life cycle, ferns are a. haploid sporophytes. c. haploid gametophytes. b. diploid sporophytes. d. diploid gametophytes. 8. In the fern life cycle, a small, heart-shaped haploid gametophyte develops immediately after the germination of a(an) a. sorus. c. egg cell. d. spore. b. gamete. Reviewing Key Skills 9. Inferring What can you infer about the needs of ferns from the fact that they thrive on the floors of thick forests? 10. Formulating Hypotheses How might too much direct sunlight affect the conditions that ferns require for fertilization?

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Chapter Vocabulary Review

Matching On the lines provided, write the letter of the definition that matches each term.

- _____ 1. gametophyte
 - 2. sporophyte
 - 3. rhizoids
 - 4. vascular tissue
 - _____ 5. tracheid
 - 6. xylem
 - 7. phloem
 - 8. root
 - 9. leaf
 - _ **10.** vein
 - _ 11. stem
 - _____ 12. rhizome

- a. type of cell specialized to conduct water
- b. underground stem
- c. underground organ that absorbs water and minerals
- d. tissue specialized to conduct water and nutrients
- e. photosynthetic organ that contains one or more bundles of vascular tissue
- f. tissue that carries water upward from the roots to other parts of the plant
- g. supporting structure that connects the roots and leaves of a plant
- h. tissue that transports solutions of nutrients and carbohydrates in a plant
- i. vascular tissue gathered in leaves
- j. long thin cells that anchor mosses to the ground
- k. diploid generation
- 1. haploid generation

Multiple Choice On the line provided, write the letter of the answer that best answers the question or completes the sentence.

- _____ 13. Bryophytes include
 - a. ferns.
- c. trees.
- b. horsetails.
- d. mosses.
- _____ 14. What type of seed plant bears its seed directly on the surface of cones?
 - a. a bryophyte
- c. a tracheid
- b. a gymnosperm
- d. an angiosperm
- 15. The plant shown below is classified as a(an)
 - a. bryophyte.
- c. angiosperm.
- b. gymnosperm.
- d. endosperm.



a. biennial

b. annual

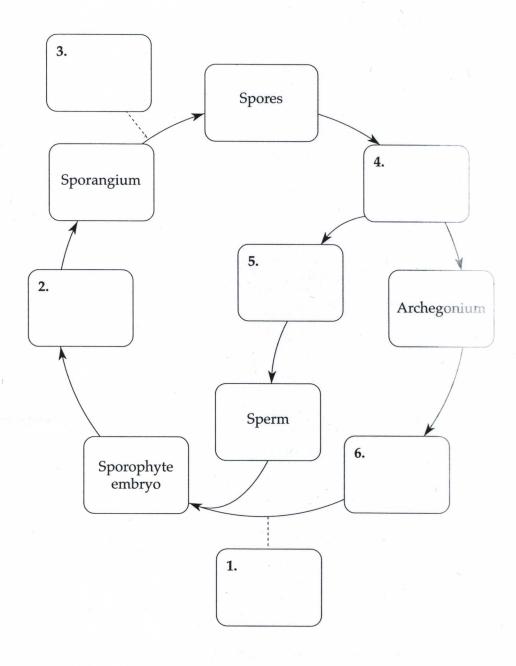
c. perennial

d. terrestrial

Graphic Organizer

Cycle Diagram

The following cycle diagram represents the life cycle of a fern. Fill in the missing information using the following terms: egg, mature sporophyte, fertilization, antheridium, meiosis, gametophyte. If there is not enough room in the diagram to write your answers, write them on a separate sheet of paper.



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source cell, where photosynthesis produces a high concentration of sugars, to a sink cell, where sugars are lower in concentration.

Date

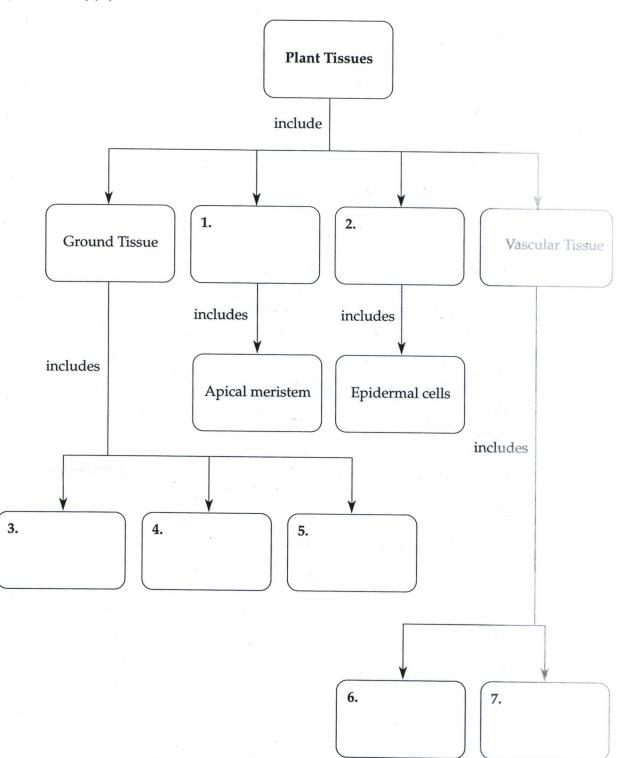
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Chapter 23 Roots, Stems, and Leaves

Graphic Organizer

Concept Map

Using information from the chapter, complete the concept map below. If there is not enough room in the concept map to write your answers, write them on a separate sheet of paper.

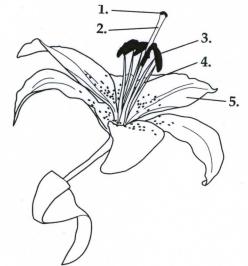


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Chapter 24 Reproduction of Seed Plants

Chapter Vocabulary Review

Labeling Diagrams On the lines provided, label the names of the parts of the flower as one of the following: anther, filament, petal, stigma, and style.



Matching On the line provided, write the letter of the definition that matches

- 6. pollen cone
- 7. seed cone
- 8. ovule
- 9. pollen tube
- ______ **10.** sepal
- _____ **11.** petal
- _____ 12. stamen
- _____ 13. anther
- ______ **14.** carpel
- _____ 15. ovary

- a. produces pollen grains in angiosperms
- b. flower structure containing one or more ovules
- c. male cone that produces male gametophytes
- d. brightly colored part of a flower that attracts insects
- e. innermost floral part that produces the female gametophyte
- f. male part of a flower consisting of an anther and a filament
- g. cone that produces female gametophytes
- h. structure in which the female gametophyte develops
- i. encloses the bud before it opens and protects the developing flower
- j. structure that grows from the pollen grain to the female gametophyte

Multiple Choice On the line provided, write the answer that best completes

- ____ **16.** The female gametophyte of a flowering plant is called
 - a. pollen.

c. the egg cell.

b. the ovule.

d. the embryo sac.

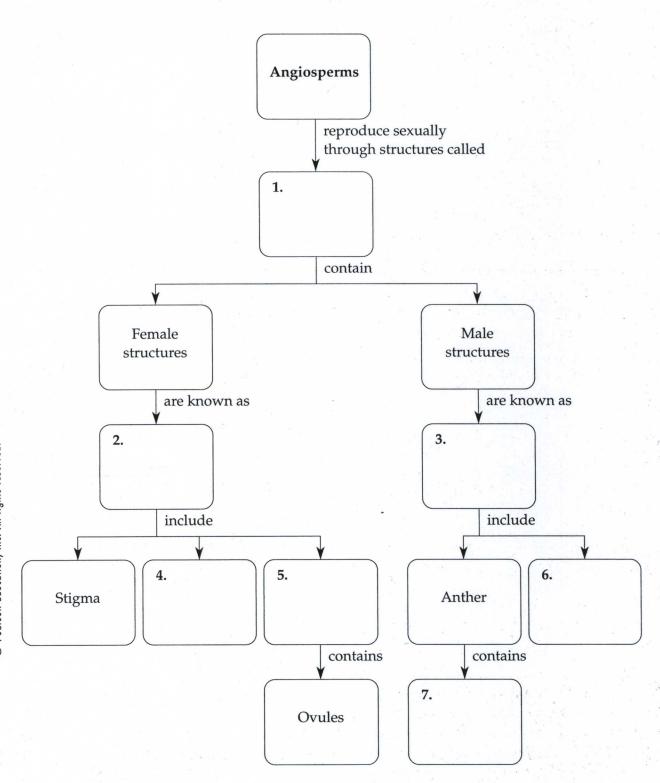
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Chapter 24 Reproduction of Seed Plants

Graphic Organizer

Concept Map

Using information from the chapter, complete the information in the concept map below. If there is not enough room in the concept map to write your answers, write them on a separate sheet of paper.



Name	Class	_	
	Class	Date	

Chapter 25 Plant Responses and Adaptations

Graphic Organizer

Concept Map

Comparing Processes

Using information from the chapter, complete the information in the concept map below. If there is not enough room in the concept map to write your answers, write them on a separate sheet of paper.

