\_\_ Class\_

Name		Date			
		Chapter 11, continued			
	eeds don't have legs, but they sure get around! Give two camples of how seeds are transported to new areas.				
lowing pl	hrases describes of	Figure 20 on page 263. Each of the folris an example of either a monocot or a d, write $M$ for a monocot and $D$ for a			
	. has one seed le	eaf			
24	an onion				
25	<b>5.</b> has leaves with branching veins				
26	6 flower parts are in threes				
27	vascular tissue	is in a ring			
28	8 flower parts are in fours or fives				
<b>29.</b> Which of the following come from flowering plants? (Circle all that apply.)					
	od crops rfume oils	<ul><li>c. rubber</li><li>d. clothing fibers</li></ul>			
	you've finished S	Section 3, review what you learned by stions in your ScienceLog.			
Section	1 4: The Stru	ctures of Seed Plants (p. 264)			
1. What do you have in common with plants?					

### Chapter 11, continued

#### Plant Systems (p. 264)

Mark each of the following statements True or False.

- **2.** \_\_\_\_\_ The shoot system is made up of stems.
- **3.** \_\_\_\_\_ The root system and shoot system work independently of each other.
- **4.** \_\_\_\_\_ Xylem is a vascular tissue that transports water and minerals through a plant.
- **5.** \_\_\_\_\_ Sugar is transported by the phloem.

#### The Root of the Matter (p. 264)

- **6.** Which of the following is NOT one of the main functions of roots?
  - a. supplying plants with water and minerals from the soil
  - **b.** making food through photosynthesis
  - **c.** supporting and anchoring the plant
  - **d.** storing food as sugar or starch

7.	. Roots have root hairs. What do root hairs do?							

- **8.** The slimy substance produced by the root cap
  - **a.** protects the tip of the root.
  - **b.** attracts minerals in the soil.
  - **c.** helps water diffuse through the root's epidermis.
  - **d.** helps the root grow through soil.

9.		obtain water from deep under-
	ground, while	roots obtain water
	close to the surface of the soil	

### What's the Holdup? (p. 266)

Mark each of the following statements True or False.

- **10.** \_\_\_\_\_ Stems are always located above the ground.
- 11. \_\_\_\_\_ Stems connect the roots to the leaves and flowers.
- **12.** Stems display flowers to pollinators.
- **13.** \_\_\_\_\_ Stems can store water.

Date Class

Chapter 11, continued

**14.** Poppies and clovers have herbaceous stems that are soft, thin,

\_\_\_\_ 17. cells that open and close the stomata

bottom surfaces of a leaf

the leaf

supporting tissue

**18.** layer of cells that contains many chloroplasts

**19.** a single layer of cells that covers the top and

**20.** a tiny pore that allows carbon dioxide to enter

**21.** contains air spaces between the cells that allow

**22.** contain xylem and phloem surrounded by

carbon dioxide to diffuse freely

and flexible. True or False? (Circle one.)

**Stem Structures** (p. 267)

Column B

a. stoma

**b.** guard cells

**d.** epidermis

**f.** veins

c. spongy layer

e. palisade layer

## Chapter 11, continued

- **23.** Cactus spines are leaves. True or False? (Circle one.)
- **24.** Figure 28 in the right-hand column of page 269 shows an insect caught on the special leaves of a sundew. How does catching insects enable the sundew to live in its environment?

# **Flowers** (p. 270)

Mark each of the following statements True or False.

- **25.** \_\_\_\_\_ Flowers are adaptations for sexual reproduction.
- **26.** \_\_\_\_\_ Sepals protect the mature flower.
- **27.** Petals may attract animals to the flower.
- **28.** The \_\_\_\_\_\_ in a flower produce pollen.
- **29.** The pistil of a flower includes the \_\_\_\_\_\_, style, and \_\_\_\_\_
- **30.** The eggs of a flower are found in the
- **31.** If the egg is fertilized, what part of the flower develops into a fruit?
- **32.** All flowers have brightly colored petals to attract insects.

True or False? (Circle one.)

### **Review** (p. 271)

Now that you've finished Section 4, review what you learned by answering the Review questions in your ScienceLog.