

# Structure and Function in Living Systems

Name: \_\_\_\_\_

## Leaves and Flowers

Period: \_\_\_\_\_

Use Chapter 12, Section 4 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

efficiently    environment    middle    spines    sundew

### Leaves (p.377)

1. The shape and size of a leaf is based upon the plant's \_\_\_\_\_ .

### Leaf Functions

\_\_\_\_\_ 2. What is the main function of leaves?

- a. to make food for the plant
- b. to help the plant reproduce
- c. to support the plant
- d. to make the plant green



Match the correct description with the correct term. Write the letter in the space provided.

- \_\_\_\_\_ 3. This organelle captures energy from sunlight.                      a. food (sugar)
- \_\_\_\_\_ 4. Leaves get this gas from air.    b. carbon dioxide
- \_\_\_\_\_ 5. This is made from carbon dioxide and water.                              c. chloroplast

### Leaf Structure (p.378)

Match the correct description with the correct term. Write the letter in the space provided.

- \_\_\_\_\_ 6. stops water loss from a leaf    a. guard cells
  - \_\_\_\_\_ 7. under the cuticle    b. cuticle
  - \_\_\_\_\_ 8. tiny opening that lets carbon dioxide enter the leaf                      c. stomata
  - \_\_\_\_\_ 9. open and close the stomata    d. epidermis
10. Look at Figure 7. The different layers allow the leaf to work \_\_\_\_\_ .
11. Photosynthesis happens in the \_\_\_\_\_ of a leaf.

### Leaf Adaptations

12. The modified leaves of a cactus are called \_\_\_\_\_ .
13. A plant called the \_\_\_\_\_ has leaves modified to catch insects.

*turn over for questions about flowers*

