

Structure and Function in Living Systems

Name: _____

Leaves

Period: _____

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

efficiently environment middle spines sundew

Leaves (p.377)

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

Leaf Functions (p.377)

_____ 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 leaf cell organelle captures energy from sunlight. a. food (sugar)
- _____ 4. Leaves get this gas from air. b. carbon dioxide
- _____ 5. This is made by the plant from carbon dioxide and water. c. chloroplast

Leaf Structure (p.378)

Match the correct function with the correct structure. 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 organelles in the _____ part 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.