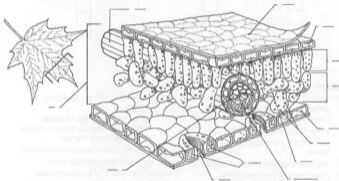


CROSS SECTION OF A LEAF

Name _____

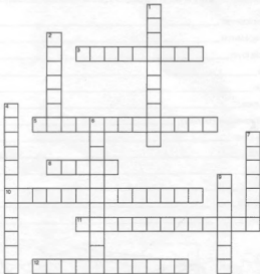
Label the following parts of the leaf in the diagram below. Give the purpose/function of each part.

- a. lower epidermis _____
- b. upper epidermis _____
- c. palisade layer _____
- d. cuticle _____
- e. stomate _____
- f. guard cells _____
- g. vein (fibrovascular bundle) _____
- h. spongy layer _____
- i. air space _____
- j. xylem _____
- k. phloem _____
- l. chloroplasts _____
- m. mesophyll _____



LEAF CROSSWORD

Name _____



Across

- outermost cellular layer of the leaf
- where most photosynthesis takes place in the leaf
- carry food and water to the cells
- food-making process occurring in leaves
- gas necessary for photosynthesis
- green pigment necessary for photosynthesis

Down

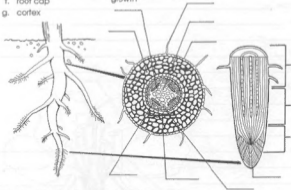
- control the size of the stoma opening
- allow the exchange of gases between the environment and the air spaces inside the leaf
- organelles that contain chlorophyll
- beneath the palisade layer
- end product of photosynthesis
- waxy coat of the leaf

STRUCTURE OF A ROOT

Name _____

Label the following parts on the diagrams of a cross-section and longitudinal section of a root below.

- | | |
|----------------------|----------------------------------|
| a. xylem | h. pericycle |
| b. phloem | i. cambium |
| c. vascular cylinder | j. region of differentiation |
| d. epidermis | k. region of elongation |
| e. root hair | l. region of meristematic growth |
| f. root cap | |
| g. cortex | |



Fill in the blanks with the correct answers.

The end of the root that absorbs minerals and _____ is the _____. The root tip is protected by several layers of cells called the _____. In the region of _____, cells mature and become specialized in function. Some cells in the outer layer develop _____. These _____ are elongated cells that increase the surface area of the root to maximize absorption of _____ and minerals from the _____. The _____ and vascular cylinder are separated by the _____. In the vascular cylinder, the xylem and _____ are separated by the _____.

STRUCTURE OF A FLOWER

Name _____

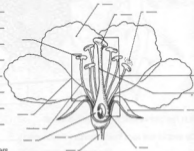
Label the parts of the flower in the diagram below. Give the purpose/function of each part.

- a. ovary _____
- b. style _____
- c. stigma _____
- d. sepal _____
- e. receptacle _____
- f. pedicel _____
- g. petal _____
- h. filament _____
- i. anther _____
- j. pollen grain _____

- k. pistil _____

- l. stamen _____

- m. ovule _____



Fill in the blanks with the correct answers.

If there are to be more flowers, _____ must take place. In pollination, pollen is transferred from the _____ to the _____. In detail, pollen is transferred from the _____ of the stamen to the _____ of the pistil. In some flowers, pollen falls on the stigma of the _____ flower. _____-pollination occurs. In other flowers, pollen from _____ flower falls on the stigma of a _____ flower. _____-pollination takes place.