

Grade 4 Science Worksheet 1: Parts of a Plant - Structure of Leaf + Photosynthesis (Difficulty Level: Advanced)

Name: _____

Date: _____

Question 1: Why are chloroplasts important in a leaf?

- a) They store food for the plant.
 - b) They contain chlorophyll, which traps sunlight for photosynthesis.
 - c) They help the leaf absorb water from the soil.
 - d) They protect the leaf from insects.
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Question 2: What would happen if the veins in a leaf were damaged?

- a) The leaf would stop making chlorophyll.
 - b) The leaf could not transport water and nutrients.
 - c) The stomata would close permanently.
 - d) The leaf would grow larger.
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Question 3: How does the waxy cuticle on a leaf help the plant?

- a) It protects the leaf from drying out by reducing water loss.
 - b) It traps sunlight for photosynthesis.
 - c) It stores extra food for the plant.
 - d) It helps carbon dioxide enter the leaf.
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Question 4: Why is the arrangement of veins in a leaf important?

- a) It gives the leaf its green color.
 - b) It supports the leaf structure and transports materials.
 - c) It traps sunlight for photosynthesis.
 - d) It absorbs nutrients from the soil.
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Question 5: Which layer of the leaf contains the most chloroplasts?

- a) The epidermis
 - b) The cuticle
 - c) The mesophyll
 - d) The stomata
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Bonus Question:

Why do some leaves have fewer stomata on their upper surface?

- a) To prevent water loss from direct sunlight.
- b) To absorb more sunlight for photosynthesis.
- c) To allow oxygen to escape easily.
- d) To trap more carbon dioxide.

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