

Grade 4 Science Worksheet 2: Parts of a Plant - Structure of Leaf + Photosynthesis (Difficulty Level: Advanced)

Name: _____

Date: _____

Question 1: What is the main function of guard cells around stomata?

- a) They trap sunlight for photosynthesis.
 - b) They open and close the stomata to control gas exchange.
 - c) They carry water to the leaf.
 - d) They make food for the plant.
-

Question 2: Which of the following explains why the underside of a leaf has more stomata?

- a) It helps the leaf absorb sunlight.
 - b) It reduces water loss by being shaded from direct sunlight.
 - c) It traps more heat for photosynthesis.
 - d) It helps water move out of the leaf faster.
-

Question 3: What happens to the water absorbed by the roots?

- a) It is used to cool down the roots.
 - b) It travels to the leaves and is used for photosynthesis.
 - c) It stays in the stem and does not move.
 - d) It escapes directly into the air.
-

Question 4: What is the primary role of chlorophyll in the leaf?

- a) It absorbs sunlight to provide energy for making food.
- b) It carries water to the leaf cells.
- c) It gives the leaf its waxy coating.
- d) It traps oxygen for the plant.

Question 5: Why is the mesophyll layer important for photosynthesis?

- a) It absorbs sunlight and contains cells packed with chloroplasts.
 - b) It allows oxygen to leave the plant.
 - c) It carries water and nutrients to the stem.
 - d) It stores carbon dioxide for the plant.
-

Bonus Question:

How do stomata help in balancing water levels in a plant?

- a) By storing extra water in their openings
- b) By closing to reduce water loss during hot weather
- c) By absorbing water from the soil
- d) By releasing all the water during photosynthesis

BE THE CHAMPION!