

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

Name: _____

Date: _____

Question 1: How does the waxy cuticle help plants in hot weather?

- a) It traps sunlight for photosynthesis.
 - b) It prevents water loss by acting as a barrier.
 - c) It helps the plant grow taller.
 - d) It absorbs carbon dioxide from the air.
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Question 2: Why do plants need both water and carbon dioxide for photosynthesis?

- a) Water provides energy, and carbon dioxide traps oxygen.
 - b) Water and carbon dioxide combine to make glucose and oxygen.
 - c) Water creates sunlight, and carbon dioxide makes food.
 - d) Water keeps the leaf cool, and carbon dioxide makes it green.
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Question 3: What happens when a plant loses too much water through transpiration?

- a) The plant absorbs more oxygen.
 - b) The plant wilts because it cannot replace lost water.
 - c) The stomata close permanently.
 - d) The plant makes more food.
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Question 4: How do guard cells help the stomata function properly?

- a) They open and close the stomata to control water and gas exchange.
- b) They transport sunlight to the chloroplasts.

- c) They carry glucose to the stem.
 - d) They store extra oxygen for the plant.
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Question 5: Why is glucose important for the plant?

- a) It gives the plant energy to grow and carry out its functions.
 - b) It is used to make oxygen.
 - c) It helps the plant absorb water.
 - d) It makes the leaf green.
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Bonus Question:

What is the main reason plants are called "producers"?

- a) They produce food for themselves and other organisms.
- b) They create sunlight for the ecosystem.
- c) They absorb water from the soil.
- d) They make the air warmer.

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