

Transpiration Investigation Review

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Understanding Plant Processes

Name: _____

Date: _____

Answer the following questions based on what you learned about transpiration and plant processes.

1. What is transpiration?

- A. Plants taking in water
- B. Plants releasing water through leaves
- C. Plants growing roots

2. Why do you think plants need to release water?

3. Transpiration occurs through tiny holes in the leaves called stomata.

- True False

4. The process of water escaping from plant leaves helps with cooling and ____ transport.

5. What did we capture in the Transpiration Bag Experiment?

- A. Soil
- B. Water vapor
- C. Sunlight

6. What surprised you about today's experiment?

7. Plants release water only when they are dry.

- True False

8. In Job 14:7, the verse talks about hope for a tree that is ____ down.

9. How is transpiration similar to sweating?

- A. Both help cool the body
- B. Both are harmful
- C. Both happen only at night

10. Why is the design of transpiration important for plants?

Answer Key

1. Plants releasing water through leaves 2. Plants need to release water to stay cool and help transport nutrients. 3. True 4. nutrient 5. Water vapor 6. I was surprised to see how much water vapor was collected in the bag. 7. False 8. cut 9. Both help cool the body 10. It helps plants manage water, stay cool, and transport nutrients effectively.