

Name _____

The Mysteries of Plant Behavior: Can They Perform Photosynthesis at Night?

Multiple Choice Questions

1. What is the primary purpose of photosynthesis in plants?
 - a) To release oxygen into the atmosphere
 - b) To create glucose and oxygen using sunlight
 - c) To consume glucose and release carbon dioxide
 - d) To open stomata at night

2. During which process do plants use the glucose produced during photosynthesis to release energy?
 - a) Photosynthesis
 - b) Transpiration
 - c) Cellular respiration
 - d) Stomatal opening

3. What do CAM plants do differently from most other plants to conserve water at night?
 - a) They close their stomata during the night.
 - b) They release excess water through transpiration.
 - c) They open their stomata at night and close them during the day.
 - d) They don't perform photosynthesis at all.

4. Which type of plant has an additional photosynthetic cell that efficiently captures carbon dioxide, even in low light conditions?
 - a) CAM plants
 - b) C4 plants
 - c) Succulents
 - d) Cacti

5. What is the primary role of energy reserves in plants?
 - a) To produce glucose
 - b) To release oxygen
 - c) To support growth and maintenance during the night
 - d) To capture sunlight

