

Name \_\_\_\_\_

## The Magic of Photosynthesis: How Plants Make Their Own Food

### Multiple Choice Questions

1. What is the primary purpose of photosynthesis?
  - a) To release carbon dioxide
  - b) To produce glucose and oxygen
  - c) To create chloroplasts
  - d) To generate heat energy
  
2. Where does photosynthesis primarily take place in a plant cell?
  - a) In the nucleus
  - b) In the mitochondria
  - c) In the chloroplasts
  - d) In the cell membrane
  
3. What is the role of chlorophyll in photosynthesis?
  - a) To store glucose
  - b) To capture sunlight and convert it into energy
  - c) To produce oxygen
  - d) To create water molecules
  
4. Which step of photosynthesis does not require direct sunlight?
  - a) Light-dependent reactions
  - b) Light-independent reactions (Calvin cycle)
  - c) Water splitting
  - d) Carbon dioxide absorption
  
5. Why is photosynthesis important for the environment?
  - a) It increases carbon dioxide levels in the atmosphere.
  - b) It releases nitrogen into the atmosphere.
  - c) It helps regulate the Earth's climate.
  - d) It generates heat for the planet.

