

Name _____

Photosynthesis Powerhouses: Where Most of the Magic Happens

Multiple Choice Questions

1. What is the primary purpose of photosynthesis?
 - a) To produce carbon dioxide
 - b) To release oxygen into the atmosphere
 - c) To convert sunlight into chemical energy
 - d) To create freshwater ecosystems

2. Which environment is home to phytoplankton, the primary contributors to aquatic photosynthesis?
 - a) Forests
 - b) Grasslands
 - c) Oceans and seas
 - d) Lakes and rivers

3. Why are forests often referred to as the "lungs of the Earth"?
 - a) Because they have a high concentration of oxygen
 - b) Because they are the primary source of carbon dioxide
 - c) Because they release oxygen and capture carbon dioxide
 - d) Because they are home to a variety of animals

4. What is the role of water in photosynthesis?
 - a) Water is not needed for photosynthesis
 - b) Water provides oxygen for the process
 - c) Water combines with carbon dioxide to produce glucose and oxygen
 - d) Water reflects sunlight onto plants

5. How do human activities like deforestation and pollution impact photosynthesis?
 - a) They have no impact on photosynthesis
 - b) They can disrupt ecosystems and harm photosynthetic organisms
 - c) They enhance the process of photosynthesis
 - d) They increase the availability of water for photosynthesis

