

Introduction to Photosynthesis (10 minutes)

Read the following text and answer the questions:


Photosynthesis is the process by which plants, algae, and some bacteria convert light energy from the sun into chemical energy in the form of glucose. This process is essential for life on Earth, as it provides energy and organic compounds for food chains.

1. What is the primary function of photosynthesis in plants?

2. What is the byproduct of photosynthesis that is released into the air?

Diagram Labeling (15 minutes)

Label the following diagram of a plant cell, identifying the parts involved in photosynthesis:

 Plant Cell Diagram

Multiple Choice Questions (15 minutes)

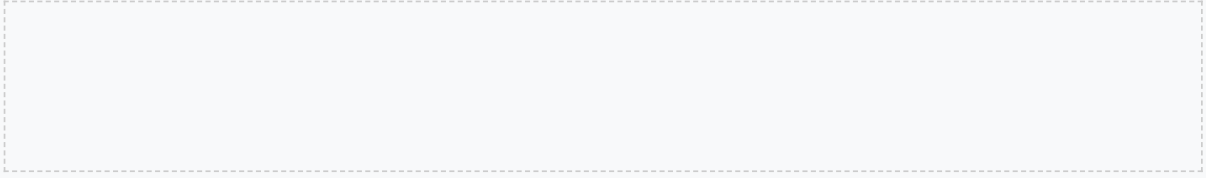
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Choose the correct answer for each question:

1. What is the primary reactant in the process of photosynthesis?
 - o a) Glucose
 - o b) Carbon dioxide
 - o c) Water
 - o d) Oxygen

2. What is the role of light energy in photosynthesis?
 - o a) To produce glucose

- b) To release oxygen
- c) To convert carbon dioxide and water into glucose and oxygen
- d) To absorb water and nutrients



Short Answer Questions (20 minutes)

Answer the following questions in complete sentences:

1. Describe the importance of photosynthesis in the ecosystem.

2. Explain the role of chloroplasts in photosynthesis.

Group Activity (25 minutes)

Group Task:

Discuss and answer the following questions:

1. How does photosynthesis affect the environment?

2. What are some ways to reduce our carbon footprint and promote photosynthesis?

Reflection and Conclusion (10 minutes)

Individual Reflection:

1. What did you learn about photosynthesis today?

2. How can you apply what you learned to your daily life?

Assessment Rubric

Use the following rubric to assess your understanding of photosynthesis:

Criteria	Foundation	Core	Extension
Understanding of photosynthesis	1-2 points	3-4 points	5-6 points
Ability to label plant cell diagram	1-2 points	3-4 points	5-6 points
Quality of written answers	1-2 points	3-4 points	5-6 points

