

## Photosynthesis Research and Notes **KEY**

Student answers should be similar to those listed below.

### Questions:

1. What is chemosynthesis? What types of organisms carry out chemosynthesis?  
Chemosynthesis uses energy released from chemical reactions to produce food for organisms. Organisms that carry out chemosynthesis are microbes (bacteria) that live far from the sun, such as deep on the ocean floor.
2. What type of organisms carry out photosynthesis?  
Autotrophs such as plants and some protists carry out photosynthesis.
3. What is photosynthesis?  
Photosynthesis is the cellular process in which autotrophs capture light energy and convert it to chemical energy (glucose) using carbon dioxide and water.
4. What is the chemical equation for photosynthesis? (Write in chemical equation and word form.)  
$$6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$
  
Carbon dioxide + water + light energy yields glucose (sugar) and oxygen
5. What are the reactants in photosynthesis?  
The reactants in photosynthesis are carbon dioxide, water and light energy.
6. What are the products in photosynthesis?  
The products in photosynthesis are glucose (sugar) and oxygen.
7. Where does photosynthesis occur?  
Photosynthesis occurs in the chloroplasts.
8. Describe the light dependent reaction of photosynthesis. Where does it occur?  
The light dependent reaction of photosynthesis occurs in the thylakoid. The light dependent reaction requires sunlight to enter the chloroplasts and water to enter through the roots. It converts light energy to chemical energy, also called ATP. This energy helps to fuel the light independent reaction, or the Calvin Cycle. During the light dependent reaction, the Sun hits the chlorophyll and this energy splits water molecules into oxygen and hydrogen. The oxygen is released while the hydrogen is used to make NADPH (an electron carrier). The NADPH is also needed for the light independent reaction.
9. The light independent reaction is also known as the Calvin Cycle. Describe the light independent reaction of photosynthesis. Where does it occur? What are its reactants and products?  
The light independent reaction or Calvin Cycle occurs in the stroma. This process converts  $\text{CO}_2$  (carbon dioxide) and ATP into glucose (sugar). Carbon dioxide from the atmosphere enters the plant, and the  $\text{H}^+$  ion is broken off from the NADPH molecule. The  $\text{NADP}^+$  then returns to the light dependent reaction to pick up more hydrogen, while the  $\text{H}^+$  ions are "fixed" with the carbon dioxide, forming glucose. The reactants in the Calvin Cycle are carbon dioxide, ATP, and the electrons on NADPH. The product of the Calvin Cycle is glucose.

# Photosynthesis Research And Notes Answer Key

**JL Elias**



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started the camp. 17 At the end of each ...