

8.2 Photosynthesis: An Overview

Lesson Objectives

- Explain the role of light and pigments in photosynthesis.
- Explain the role of electron carrier molecules in photosynthesis.
- State the overall equation for photosynthesis.

Lesson Summary

Chlorophyll and Chloroplasts In _____, photosynthesis occurs in organelles called _____. Chloroplasts house _____.

- ▶ Light is a form of energy. Sunlight is a mixture of all the different colors of _____.
- ▶ Light-absorbing molecules called _____ capture the sun's energy.
- ▶ _____ is the principal pigment in photosynthetic organisms. Chlorophyll absorbs _____ and _____ but reflects _____ light.
- ▶ Chloroplasts have a complex internal structure that includes:
 - _____: saclike photosynthetic membranes that contain chlorophyll and other pigments and are arranged in stacks called grana.
 - _____: the fluid portion outside of the thylakoids.

High-Energy Electrons The energy in light raises some of the _____ in chlorophyll to higher energy levels. These high-energy _____ are used in photosynthesis.

- ▶ Electron carriers are used to transport the electrons from chlorophyll to other molecules during photosynthesis.
- ▶ _____ is a compound that can accept and hold 2 high-energy electrons and 1 hydrogen ion. This process converts NADP^+ into NADPH.

An Overview of Photosynthesis Usually summarized by a simple chemical reaction, photosynthesis is a complex process that involves two interdependent sets of reactions.

- ▶ The _____ require light, light-absorbing pigments, and water to form NADPH, ATP, and oxygen.

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Kathleen Armour



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