

## 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  $\text{NADP}^+$  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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