# Section 8–2 Photosynthesis: An Overview (pages 204–207)

### **C** Key Concepts

- What did the experiments of van Helmont, Priestley, and Ingenhousz reveal about how plants grow?
- What is the overall equation for photosynthesis?
- What is the role of light and chlorophyll in photosynthesis?

#### Introduction (page 204)

1. What occurs in the process of photosynthesis?

#### Investigating Photosynthesis (pages 204–206)

- 2. What did Jan van Helmont conclude from his experiment?
- **3.** Circle the letter of the substance produced by the mint plant in Joseph Priestley's experiment.
  - **a.** carbon dioxide
  - **b.** water
  - c. air
  - d. oxygen
- 4. What did Jan Ingenhousz show? \_\_\_\_\_

## The Photosynthesis Equation (page 206)

- **5.** Write the overall equation for photosynthesis using words.
- 6. Photosynthesis uses the energy of sunlight to convert water and carbon dioxide into oxygen and high-energy \_\_\_\_\_

## Light and Pigments (page 207)

7. What does photosynthesis require in addition to water and carbon dioxide?

Name	Class	Date
8. Plants gather the sun's er	nergy with light-absorbing mo	blecules called
<b>9.</b> What is the principal pig	ment of plants?	
<b>10.</b> Circle the letters of the relight very well.	gions of the visible spectrum	in which chlorophyll absorbs
a. blue-violet region		
<b>b.</b> green region		
<b>c.</b> red region		
<b>d.</b> yellow region		

#### **Reading Skill Practice**

By looking at illustrations in textbooks, you can help yourself remember better what you have read. Look carefully at Figure 8–4 on page 206. What important ideas does this illustration communicate? Do your work on a separate sheet of paper.