Nam	ne Date Class
Sec	tion 8–2 Photosynthesis: An Overview (pages 204–207)
+	TEKS FOCUS: 3F History of biology and contributions of scientists, 4B Cellular processes
This grow	section describes what important experiments revealed about how plants It also introduces the overall equation for photosynthesis and explains oles light and chlorophyll have in the process.
Intr	roduction (page 204)
1. \	What occurs in the process of photosynthesis?
	estigating Photosynthesis (pages 204–206)
2. \	What did Jan van Helmont conclude from his experiment?
	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 What did Jan Ingenhousz show?
	e Photosynthesis Equation (page 206) Write the overall equation for photosynthesis using words.
	Write the overall equation for photosynthesis using chemical formulas.
	Photosynthesis uses the energy of sunlight to convert water and carbon dioxide into oxygen and high-energy
Ligl	ht and Pigments (page 207)
_	What does photosynthesis require in addition to water and carbon dioxide?
9.]	Plants gather the sun's energy with light-absorbing molecules called
10. V	

- **11.** Circle the letters of the regions of the visible spectrum in which chlorophyll absorbs light very well.
 - a. blue-violet region
 - **b.** green region
 - c. red region
 - d. 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.