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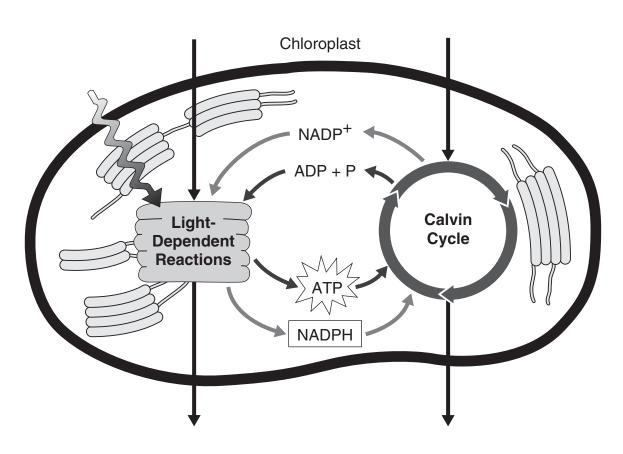
Section 8-3 The Reactions of Photosynthesis (pages 208-214)

TEKS FOCUS: 3F History of biology and contributions of scientists, 4B Cellular processes; TEKS SUPPORT: 9A Structure and function of biomolecules

This section explains what happens inside chloroplasts during the process of photosynthesis.

Inside a Chloroplast (page 208)

- 1. Chloroplasts contain saclike photosynthetic membranes called _______.
- 2. What is a granum?
- **3.** The region outside the thylakoid membranes in the chloroplasts is called the
- **4.** What are the two stages of photosynthesis called?
 - a. _
 - b._____
- **5.** Complete the illustration of the overview of photosynthesis by writing the products and the reactants of the process, as well as the energy source that excites the electrons.



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Th	Calvin Cycle (pages 212–214)	
14.	What does the Calvin cycle use to produce high-energy sugars?	
15.	Why are the reactions of the Calvin cycle also called the light-independent reactions?	
16.	Circle the letter of each statement that is true about the Calvin cycle.	—
	The main products of the Calvin cycle are six carbon dioxide molecules.	
	Carbon dioxide molecules enter the Calvin cycle from the atmosphere.	
	Energy from ATP and high-energy electrons from NADPH are used to convert 3-carbon molecules into higher-energy forms.	
	d. The Calvin cycle uses six molecules of carbon dioxide to produce a single 6-carbon sugar molecule.	
Fac	tors Affecting Photosynthesis (page 214)	
17.	What are three factors that affect the rate at which photosynthesis occurs?	
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18.	s the following sentence true or false? Increasing the intensity of light decreases the rate of photosynthesis	