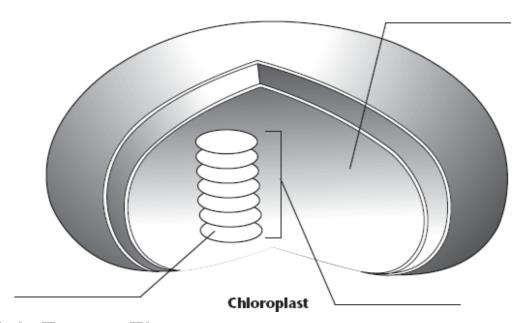
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8.2 Photosynthesis: An Overview

Chlorophyll and Chloroplasts

For Questions 1–6, complete each statement by writing the correct word or words.

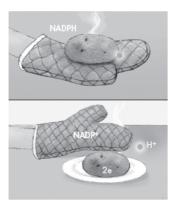
- 1. The _____ of light determines its color.
- 2. Chemicals that absorb light are called
- **3.** Chlorophyll makes plants look green because it ______ green light.
- 4. Chloroplasts contain an abundance of saclike photosynthetic membranes called
- **5.** The ______ is the fluid portion of the chloroplast located outside the thylakoids.
- **6.** The visible light absorbed by chlorophyll ______ the energy level of the chlorophyll's electrons.
- 7. **THINK VISUALLY** Label the internal parts of the chloroplast below.



High-Energy Electrons

For Questions 8–9, refer to the Visual Analogy comparing electron carriers to oven mitts.

8. VISUAL ANALOG In the visual analogy of carrying electrons, what represents the high-energy electrons?



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. Where do the high-energy electrons carried by l	NADPH come from?			
n Overview of Photosynth	esis			
r Questions 11–13, write the letter of the corre				
11. What are the reactants of the photosyr	nthesis reaction?			
A. chlorophyll and light	C. carbohydrates and oxygen			
B. carbon dioxide and water	D. high-energy electrons and air			
12. What are the products of the light-depe	endent reactions?			
A. chloroplasts and light	C. oxygen and ATP			
B. proteins and lipids	D. water and sugars			
13. Where do the light-independent reaction	ons occur?			
A. stroma	C. chlorophyll			
B. thylakoids	D. mitochondria			