

**Chapter 8 Photosynthesis**

**Chapter Vocabulary Review**

**Defining Terms** *On the lines provided, write a definition of each of the following terms.*

- 1. ATP \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 2. thylakoid \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 3. NADP<sup>+</sup> \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 4. ATP synthase \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- 5. Calvin cycle \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Short Answer** *On the lines provided, answer the following questions.*

- 6. What is the difference between an autotroph and a heterotroph?  
\_\_\_\_\_  
\_\_\_\_\_
- 7. In which part of photosynthesis is oxygen produced?  
\_\_\_\_\_  
\_\_\_\_\_
- 8. What is the relationship between pigments and chlorophyll?  
\_\_\_\_\_  
\_\_\_\_\_
- 9. How do the light-dependent reactions differ from the Calvin cycle?  
\_\_\_\_\_  
\_\_\_\_\_
- 10. What compounds are formed from carbon dioxide in the Calvin cycle?  
\_\_\_\_\_  
\_\_\_\_\_

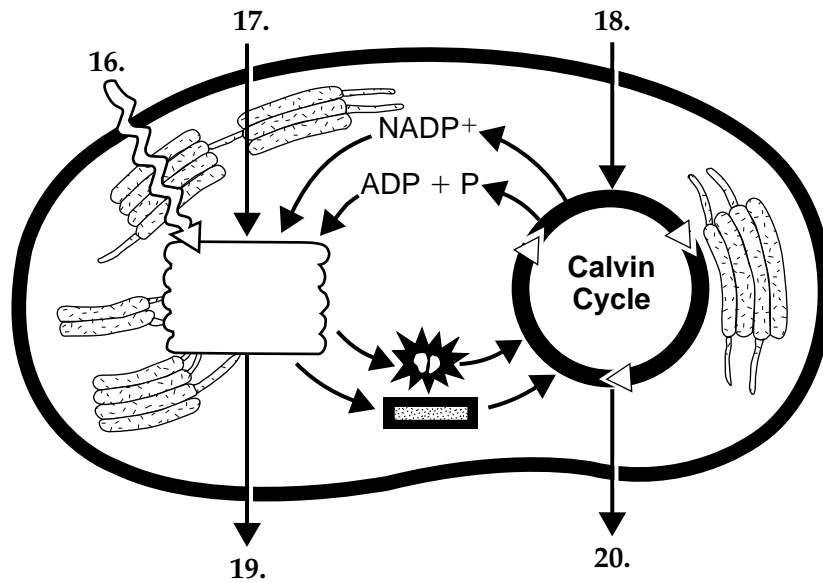
© Pearson Education, Inc. All rights reserved.

**Matching** Match each term with its description below. Write the letter of the correct term on the line provided.

- a. chlorophyll
- b. stroma
- c. pigment
- d. photosynthesis
- e. light-dependent reactions

- \_\_\_\_\_ 11. molecule that absorbs light
- \_\_\_\_\_ 12. produce oxygen gas and convert ADP to ATP
- \_\_\_\_\_ 13. the region outside the thylakoid membranes
- \_\_\_\_\_ 14. principal pigment found in plants
- \_\_\_\_\_ 15. process by which autotrophs use sunlight to make high-energy sugars

**Labeling Diagrams** On the lines provided, write the names of the reactants and products for photosynthesis that correspond to the numbers in the diagram.



© Pearson Education, Inc. All rights reserved.

- 16. \_\_\_\_\_
- 17. \_\_\_\_\_
- 18. \_\_\_\_\_
- 19. \_\_\_\_\_
- 20. \_\_\_\_\_