

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⁺ _____

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?

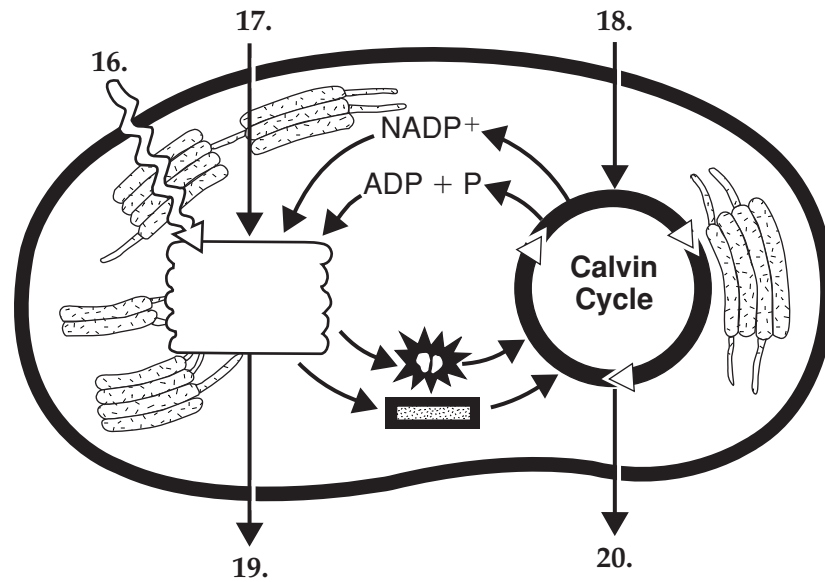
10. What compounds are formed from carbon dioxide in the Calvin cycle?

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.



- 16. _____
- 17. _____
- 18. _____
- 19. _____
- 20. _____