

Chapter 8 Photosynthesis

Vocabulary Review

Matching *In the space provided, write the letter of the definition that best matches each term.*

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|-------------------------------------|---|
| _____ 1. photosynthesis | a. clusters in the thylakoid membrane of chlorophyll and other pigments |
| _____ 2. chlorophyll | b. the region of the chloroplast outside the thylakoid membranes |
| _____ 3. pigment | c. electron carrier |
| _____ 4. adenosine triphosphate | d. process in which plants use the energy of sunlight to make high-energy carbohydrates |
| _____ 5. thylakoid | e. reactions that use ATP and NADPH to produce high-energy sugars |
| _____ 6. photosystems | f. light-absorbing molecules |
| _____ 7. stroma | g. the basic energy source of all cells |
| _____ 8. NADP ⁺ | h. reactions that produce oxygen gas and convert ADP and NADP ⁺ into the energy carriers ATP and NADPH |
| _____ 9. Calvin cycle | i. saclike photosynthetic membranes in chloroplasts |
| _____ 10. light-dependent reactions | j. principal pigment of plants |

Answering Questions *In the space provided, write an answer to each question.*

11. What is an organism that obtains energy from the food it consumes? _____

12. What is an organism that is able to make its own food? _____

13. What is released when the chemical bond is broken between the second and third phosphates of an ATP molecule? _____

14. What are the reactants of the equation for photosynthesis? _____

15. What are the products of the equation for photosynthesis? _____
