Chapter 8 Photosynthesis

Vocabulary Review

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

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

Class_____ Date _____