Name_____ Class_____ Date _____

Vocabulary Review

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

_____ **1.** calorie
_____ **2.** glycolysis
_____ **3.** cellular respiration
_____ **4.** NAD^+
_____ **5.** fermentation
_____ **6.** anaerobic
_____ **7.** aerobic

a. electron carrier
b. pathway that releases energy from food in the absence of oxygen
c. requires oxygen
d. process in which one molecule of glucose is broken in half, producing two molecules of pyruvic acid
e. does not require oxygen
f. amount of energy needed to raise 1 gram of water 1 degree Celsius
g. process that releases energy by breaking down food molecules in the presence of oxygen

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

8. What is the first stage of cellular respiration? _____

_____

9. What is the second stage of cellular respiration? _____

_____

10. What is the third stage of cellular respiration? _____

_____

11. How many ATP molecules can the cell produce from a single molecule of glucose through glycolysis? _____

12. How many ATP molecules can the cell produce from a single molecule of glucose through the complete process of cellular respiration? _____

Completion *Write an equation for each of the pathways below.*

13. lactic acid fermentation after glycolysis _____

_____

14. alcoholic fermentation after glycolysis _____

_____

15. cellular respiration _____

_____