

Cellular Respiration

Name: _____ Period: _____ Date: _____

1. Define cellular respiration: _____
2. Write the equation for Cellular Respiration: _____
3. List the three stages of cellular respiration and identify if they require oxygen.
 - A. _____ Oxygen / No Oxygen
 - B. _____ Oxygen / No Oxygen
 - C. _____ Oxygen / No Oxygen

Glycolysis

4. What is glycolysis? _____

5. How many ATPs are needed to start glycolysis? _____
6. How many ATPs does glycolysis produce? _____
7. What is the net gain of ATPs from glycolysis? _____
8. Where does glycolysis take place? _____
9. What does glycolysis break down? _____
10. What is the end product of glycolysis? _____
11. Where does pyruvic acid go? _____
12. How many molecules of pyruvic acid were made from 1 molecule of glucose? _____
13. How many NADH are produced during glycolysis? _____
14. Where does the NADH go to? _____

Draw and Label a picture of Glycolysis (p. 232)

Fermentation

15. When oxygen is not present glycolysis is followed by _____.
16. What is fermentation? _____
17. During fermentation, how do cells convert NADH to NAD⁺? _____

18. Does fermentation require oxygen? _____
19. If a process does not require oxygen it is said to be _____

Alcoholic Fermentation

20. What type of organisms use alcoholic fermentation?

21. Write the equation for alcoholic fermentation.

Lactic Acid Fermentation

22. In what type of cells does lactic acid fermentation take place?

23. Write the equation for lactic acid fermentation.

Draw and Label Table 9.12 (Page 235)