

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)