

# Cellular Respiration Review Sheet

1. The goal of cellular respiration is to make \_\_\_\_\_.
2. These are the two main types of cellular respiration we studied.
3. Anaerobic respiration occurs in the absence of \_\_\_\_\_ (but aerobic respiration needs this)
4. In glycolysis, one molecule of glucose is split into two molecules of \_\_\_\_\_.
5. Is energy needed to begin glycolysis?
6. How many net ATP are made during glycolysis?
7. In anaerobic respiration, what process occurs after glycolysis?
8. What are the two types of fermentation we studied?
9. In lactic acid fermentation, the pyruvic acid produced during glycolysis is converted to \_\_\_\_\_.
10. During alcoholic fermentation, the pyruvic acid made during glycolysis is converted to carbon dioxide and \_\_\_\_\_.
11. Alcoholic fermentation is used to make \_\_\_\_\_.(several possible correct answers)
12. If a person feels discomfort in his or her muscles after strenuous exercise, you can conclude that his or her muscle cells have been doing \_\_\_\_\_.
13. What is the first step of cellular respiration (whether it is anaerobic or aerobic)?
14. In order, what are the three steps of aerobic respiration?
15. Where in the cell does glycolysis occur?
16. Where in the cell does fermentation occur?
17. Where in the cell does the Krebs cycle occur?
18. Where in the cell does the ETC occur?
19. How many ATP has been made during cellular respiration after glycolysis is over?
20. During the Krebs cycle how many ATP Molecules are created?
21. In aerobic respiration, after glycolysis and the Krebs Cycle are over, how many total ATP's have been made? (with the energy in one molecule of glucose)?
22. As hydrogen ions move down the concentration gradient through the ATP synthase, the energy released in this process is used to convert ADP to \_\_\_\_\_.
23. Which of the three stages of aerobic respiration makes the most ATP?
24. In aerobic respiration, how many ATP can be made from one molecule of glucose?
25. When oxygen combines with electrons and hydrogen ions, what is formed?