

Biology Name \_\_\_\_\_

### Cellular Respiration Study Guide

1. Glucose undergoes cellular respiration only about \_\_\_\_\_ ATP molecules per glucose molecule.
2. What is the process by which glucose is converted to pyruvate acid?
3. At the beginning of aerobic respiration, glucose enters the cell at \_\_\_\_\_.
4. The breakdown of glucose acid in the presence of oxygen is called \_\_\_\_\_.
5. After every complete cycle of the Krebs Cycle, how many ATP molecules are made? \_\_\_\_\_
6. What is the main purpose of the Krebs Cycle? \_\_\_\_\_
7. The conversion of pyruvate acid to carbon dioxide and ethanol is called \_\_\_\_\_.
8. The release of energy stored molecules in the absence of oxygen is \_\_\_\_\_.
9. What is the purpose of the electron transport chain? \_\_\_\_\_
10. What is the flow pathway of cellular respiration called? \_\_\_\_\_
11. What does glycolysis entail? \_\_\_\_\_
12. What happens all cellular respiration in the presence of oxygen? \_\_\_\_\_
13. These processes \_\_\_\_\_ and \_\_\_\_\_ in the presence known as \_\_\_\_\_.
14. In cellular respiration, most energy is used during the \_\_\_\_\_ step or any other step.
15. Other molecules are converted into \_\_\_\_\_ molecules in the process of glycolysis.
16. Glycolysis begins with glucose and produces \_\_\_\_\_.
17. In the first step of aerobic respiration, glucose acid from glycolysis and produces CO<sub>2</sub>, H<sub>2</sub>O, ATP, and \_\_\_\_\_.
18. NADH happens in electrons as they are transported along the electron transport chain? \_\_\_\_\_
19. What is the role/function in the creation of the electron transport chain? \_\_\_\_\_