Name: Date: Block:

*Directions:* Answer the questions along with the video.

1. What is cellular respiration, and what is the molecule that gives us that energy?
2. What is the form of stored energy?
3. What is ATP made of?
4. What molecule is made when ATP gets rid of a phosphate group?
5. What is the process called when you use water to break down a molecule?
6. What does Cellular Respiration begin with?
7. What are the three stages of Cellular Respiration?
8. When glucose gets broken down, what does it become?
9. How many ATPs is needed to start glycolysis?
10. What are the end products of glycolysis?
11. If no oxygen is present, glycolysis will then take an anaerobic pathway called?
12. When we exercise, our muscles begin to get hot and have a burning sensation. What type of fermentation causes this?
13. What does it mean to be an aerobic process?
14. Where does the Krebs Cycle occur?
15. What does the Krebs Cycle do?
16. What do enzymes help do in the Krebs Cycle?
17. NAD+ and FAD do what?
18. How many ATPs can the electron transport chain make?
19. What is the special protein that allows protons back in to the inner membrane?
20. ATP Count: for one molecule of glucose, how many ATP are made during each stage of Cellular Respiration?
    1. Glycolysis: \_\_\_\_\_\_\_\_\_\_
    2. Krebs Cycle: \_\_\_\_\_\_\_\_\_
    3. ETC: \_\_\_\_\_\_\_\_\_
    4. Totaling:\_\_\_\_\_\_\_\_\_\_ ATP