Name:

Answer the questions below as you watch the video clip. Use the notes you took the first viewing if you need to. We will watch the clip again if you miss questions.

1. What is cellular respiration?
2. What is the formula for respiration?
3. What do our bodies need to turn energy into in order to use it to run a marathon?
4. What is currency? Explain why ATP is sometimes called the currency of energy?
5. The video mentions that ATP cane be used to help move substances across the cell membrane. Do you remember what this is called?
6. Describe the structure of an ATP molecule.
7. How does ATP release energy? What is the process called?
8. How many ATPs can be made from one glucose molecule?
9. What are the three steps that occur during cellular respiration?
10. What happens during glycolysis?
11. **See Glycolosis Diagram \***
12. Describe what is meant by anaerobic respiration?
13. What is the result of fermentation in our muscle cells?
14. What does it mean that the Kreb's cycle and electron transport chain are aerobic?
15. Where does glycolysis occur? Kreb's cycle?
16. What occurs during the Kreb's cycle?
17. **See Kreb’s Cycle Diagram\***
18. What are NADH and FADH2 compared to? How many are produced by each glucose?
19. How many ATPs can be made in the electron transport chain?
20. Where do the ATPs come from?
21. For one molecule of glucose how many ATP are made during glycolysis? Kreb's cycle? Electron transport chain?