**Respiration & Fermentation ~** *Biology* Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Construct a diagram that shows the following… (you may do so on the back of this page)

1. Glycolysis
   1. Glucose
   2. ATP
   3. Pyruvic Acid
2. Cellular Respiration
   1. Krebs Cycle
      1. Pyruvic Acid
      2. CO2
      3. ATP
   2. Electron Transport Chain
      1. ATP
      2. H2O
      3. O2
3. Fermentation
   1. Pyruvic Acid
   2. ATP
   3. Alcoholic Fermentation
      1. CO2
      2. Ethyl Alcohol
   4. Lactic Acid Fermentation
      1. Lactic Acid

Questions:

1. What process begins both cellular respiration and fermentation?
2. What is needed for a cell to continue with cellular respiration after glycolysis?
3. What happens to pyruvic acid in the Krebs cycle?
4. How many ATP are produced from the cellular respiration of glucose?
5. Why does fermentation occur?
6. What are the end products of alcoholic fermentation?
7. What is the end product of lactic acid fermentation?
8. How many ATP are produced during fermentation?
9. Why do runners breathe heavily during a sprint race?
10. List the body’s sources of energy in the order in which they are used during a long distance race.
11. Give examples of organisms that perform alcoholic fermentation.
12. What kind of food/drinks are made with alcoholic fermentation?
13. Give examples of organisms that perform lactic acid fermentation.
14. What kind of food/drinks are make with lactic acid fermentation?