

Name: \_\_\_\_\_

Period: \_\_\_\_\_

### Cellular Respiration Review

1. What are the 3 phases of cellular respiration?
  - a.
  - b.
  - c.
2. Where in the cell does glycolysis occur?
3. Where in the cell does the Krebs Cycle occur?
4. Where in the cell does the electron transport occur?
5. How many ATP (net) are made in the glycolysis part of cellular respiration?
6. How many ATP are made in the Kreb's cycle part of cellular respiration?
7. How many ATP are made in the electron transport part of cellular respiration?
8. In which phase of cellular respiration is carbon dioxide made?
9. In which phase of cellular respiration is water made?
10. In which phase of cellular respiration is oxygen a substrate?
11. In which phase of cellular respiration is glucose a substrate?
12. What would happen to the cellular respiration process if the enzymes for one step of the process were missing or defective?
13. What happens in muscle cells if there is not enough O<sub>2</sub> present? Why?

14. What are yeast doing during fermentation?

15. Only 44% the energy released from the glucose molecule during glycolysis is stored in ATP. Where does the rest of the energy go?

16. Write the chemical equation for cellular respiration

**Vocabulary - Define their role in cellular respiration**

1. **Acetyl CoA:** forms when Coenzyme A attaches to two carbons from pyruvic acid.
2. **Aerobic**
3. **Anaerobic**
4. **Atp**
5. **Cellular Respiration**
6. **Citric Acid**
7. **CO<sub>2</sub>**
8. **Electron Transport System**
9. **Fermentation**
10. **Glucose**
11. **Glycolysis**
12. **Krebs Cycle**
13. **Mitochondria**