**Chapter 6 Cellular Respiration Study Guide and Questions**

1. Review: Photosynthesis (Reactants, Products, Location of Occurrence)
2. Review: Redox Reactions (Oxidized, Reduced)
3. Cellular Respiration (Reactants, Products, Location of Occurrence)
4. Respiration vs. Cellular Respiration
5. Stages of Cellular Respiration (Order, Process -Reactants, Products, Intermediates -Location they Occur)
6. Diagrams of the Stages of Cellular Respiration (Be able to Explain a Diagram)
7. Kilocalories
8. Fermentation (Process – Reactants, Products, Intermediates, and 2 Types)
9. Aerobic vs. Anaerobic Respiration
10. Anaerobes (Obligate vs. Facultative)

\*Be able to answer questions in PP notes

Additional Questions

1. What is the equations for photosynthesis using words and chemical symbols?
2. What is the equation for aerobic cellular respiration using words and chemical symbols?
3. What is ATP and how does it provide energy?
4. Differentiate between substrate level phosphorylation and oxidative phosphorylation.
5. What is a kilocalorie?
6. What are the stages of aerobic cellular respiration (in order) and where does each occur?
7. Describe in your own words what happens in the first stage of aerobic cellular respiration.
8. Describe in your own words what happens in the link reaction (pyruvate oxidation) that connects the first stage to the second stage.
9. Describe in your own words what happens in the second stage of cellular respiration.
10. Describe in your own words what happens in the third stage of cellular respiration.
11. What is a redox reaction? What is happening when a molecule gets reduced? Oxidized?
12. What function to NAD+ and FAD serve in the process of aerobic cellular respiration?
13. What is chemiosmosis?
14. What role does oxygen play in the process of aerobic cellular respiration?
15. What is another term for anaerobic cellular respiration? Describe the process.
16. What are the two types of anaerobic cellular respiration?
17. Differentiate between the two types of anaerobes.