**Unit 2 – Cells & Cell Processes Study Guide**

**TEST on Wednesday, October 4**

**\*Your notebook is the BEST review for the test.**

**\*Don’t forget to look through pg 60-97 in your text book too.**

**Vocabulary Quizlet – http://tinyurl.com/gt9jdg5**

**Questions to answer – Answer the following questions on a separate sheet of notebook paper.**

1. Differentiate between prokaryotic and eukaryotic cells.
2. Describe the three parts of the cell theory.
3. Who are the scientists who helped develop the cell theory? (Advanced Only)
4. Compare the organelles for both plant and animal cells.
5. Why are plant and animal cells different?
6. What are the functions of each organelle in a eukaryotic cell?
7. How are diffusion and osmosis alike/different?
8. Describe the different types of transport across the cell membrane.
9. Compare the processes involved with endocytosis and exocytosis.
10. Explain the process of photosynthesis.
11. Explain the process of cellular respiration.
12. What are the organelles involved with photosynthesis and cellular respiration?
13. Describe the relationship between the reactants and products associated with photosynthesis and cellular respiration.
14. What are producers and consumers?
15. How is fermentation different from photosynthesis and cellular respiration?

16. How is total magnification calculated on a light microscope?

17. How does an image change when looking at the image through a microscope?

18. Draw and label the six phases of mitosis (aka the cell cycle).