**Test #2: Cells Study Guide**

Please answer all of the following questions individually in complete sentences. We will complete a group activity to share out answers when you have completed this study guide.

**Cell Basics**

What I should know before my test

1. What is the difference between a plant cell and an animal cell?
2. What is a prokaryote?
3. What is an example of a prokaryote?
4. What is the function of the mitochondria in a cell?
5. What are the differences between Prokaryotes and Eukaryotes?
6. What is the pigment that captures the sun’s energy called?

**Diffusion**

What I should know before my test

1. What does semi-permeable mean?
2. What is diffusion?
3. What is osmosis?
4. What is active transport?
5. In what direction do substances in the cell move through the cell membrane?
6. What are examples in your body of movement across a semi-permeable membrane?

**Photosynthesis and Cellular Respiration**

What I should know before my test

1. When is energy released to power the cell in the process of cellular respiration?
2. What is the total ATP production in: Anaerobic respiration and aerobic respiration?
3. What is the primary useable energy molecule?
4. What does every cell in your body need to take in oxygen and get rid of CO2?
5. Why photosynthesis is important?
6. What gases are exchanged during photosynthesis and cellular respiration?

I am very proud of how hard you worked this unit, and this test will show you how much you have learned. Remember, I have tutoring at lunch or after school every day so please stop by if you have questions that are not answered in class.