

## **Chapter 1: Cell Structure and Function**

For the first 6-8 weeks of school, students will be learning about cell structure and function which includes the discovery of cells, cell organelles, the chemical compounds found in cells, and how the cell reacts to its environment. The textbook we will be using is Cells and Heredity, Prentice Hall Science Explorer.

Reading notes and outlines will be given to the students in order to help foster an understanding of the printed materials. We will discuss each section, in detail, during subsequent class periods. Graded assessments for each section of the chapter will follow class discussions.

The students will have several labs and/or activities that deal with the Care/Maintenance and Proper Uses of a Compound Light Microscope; Laboratory Investigation: Cells~The Basic Units of Life...microscopic discovery dealing with finding the differences between plant and animal cells; and an Egg-speriment which will show the students how a cell membrane of an animal cell is selectively permeable.

Quizzes will be given to "test" the knowledge of each individual student on their ability to correctly spell and label a compound light microscope and the organelles of an animal cell.

The Chapter Project will be the construction of a 3-D animal cell. This project will be completed early in the school year and is the only "take home" project, in Science, for the school year.

At the end of the chapter, students will be given a comprehensive study Guide that we will discuss in class. A Chapter Test will conclude this particular course of study.