

Chapter 2: Cell Processes and Energy

The second chapter of the textbook: Cells and Heredity, Prentice Hall Science Explorer, deals with topics such as: Photosynthesis, Respiration, Cell Division, and Cancer.

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 Stomata Functions-how plants obtain carbon dioxide used in the process of photosynthesis: What is a Product of Respiration?-how single celled organisms use yeast and sugar to produce gases; What Happens When There Are Too Many Cells?- how cells divide, how often, and the results from the divisions.

A quiz or two might be given to the students to keep them "on their toes."

The Chapter Project will pertain to the construction of a DNA Ladder-a portion of a typical protein found inside our bodies. Students will trace, cut out, label, and assemble correctly 4 amino acids found in the protein. This project will be done, by the students, over the duration of several class periods.

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.