

Chapter 4: Modern Genetics

The students will continue in the textbook: Cells and Heredity, Prentice Hall Science Explorer, and move into Chapter 4: Modern Genetics. This chapter deals with topics such as Human Inheritance, Human Genetic Disorders, and Advances in Genetics.

Reading notes and outlines will be given to students in order to help foster an understanding of the printed materials. We will discuss each section, in detail, during subsequent class periods. Many assignments dealing with pedigrees, karyotyping, hybridization, and genetic engineering (among others)...will be introduced and completed.

The students will have several labs and/or activities that deal with How Tall is Tall? (multiple alleles); The Eyes Have It (human inheritance); How Many Chromosomes? (genetic disorders); Family Puzzle (pedigrees); and Guilty or Innocent? (DNA fingerprinting).

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

As this is a shorter chapter, there will be NO Chapter Project. We have discussed, indirectly, much of the information previously. The labs and/or activities will provide adequate background and substance for the materials that will be dealt with.

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.