



Science Summary

1st Semester Overview

Adv. Biology

Advanced Biology is a senior class. We begin the year with a study of the systems of the human body. With each system, we include a discussion of the medical terminology and diseases/disorders associated with that particular system. When we finish our study of the systems, we will be moving into a study of Nutrition, Disease and Wellness, and Continuity of life. I hope to include a few more learning activities in the second semester, but one activity that the students enjoyed this semester was the dissection of a deer heart.

Chemistry

The first semester of chemistry included a microscopic study of the elements. We discovered the exact location of the electrons and why this is so important to understand this before we see how elements form compounds. We also studied the properties of matter and how chemical and physical changes occur within matter. Along with these topics, we also have been doing some problem solving and data analysis. Chemistry will continue to be challenging to the Juniors as we study chemical reactions, the "Mole" concept, and stoichiometry in the next semester

Physics

In Physics, the seniors enjoy being able to go to the gym and do activities to support the laws and principles that we are learning about. Examples would include: Newton's First and 2nd laws of motion. In the next quarter, we will be continuing with Newton's third law of motion and Momentum, followed by Work and Power.



Biology

Sophomore biology covers many different topics throughout the year. We begin with a study of the different Biomes of the world. The students created powerpoint presentations to help them organize all of the information. We also reviewed the parts of the cell and their functions where we created our own version of a cell out of various materials. We will continue the year with Genetics, Kingdoms, and body systems.

Physical Science

Physical science is a challenge for many freshmen. It is an introduction to chemistry and physics including the process of solving many mathematical equations. We have covered Motion and forces including Newton's 3 laws of motion. We have also discussed Energy, Work, and Simple machines including pulleys. The students enjoyed being able to create different pulley systems. We will be studying more Chemistry related topics like Matter and Chemical bonds next semester.