

To: AISD Board of Trustees
Dr. James Monaco, Superintendent

From: Mr. Jeff Mulkey, Principal, Aubrey High School

Date: November 29, 2010

Subject: Board Communication

Science - Penny Wimbrough

Biology:

The Biology students are currently working with DNA - which will involve putting together a model of the DNA molecule. They will also be using a paper model to show replication of DNA and then they will use that model to make a protein.

Pre-AP Biology:

They are designing and building an original model of the DNA molecule.

Anatomy and Physiology:

They are completing their Unit on muscles. The highlight of the unit was the chicken wing dissection - many of them were surprised at how alike our arm muscles and the muscles in a chicken's wing are. They are also preparing for their presentations on scientists. The scientists are those that have made contributions to anatomy and physiology through their work.

In chemistry we are finishing up our Bonding and Nomenclature Unit. Students learned how to name ionic and molecular compounds as well as write chemical formulas given the name. They also investigated some of the properties that these compounds display in a lab activity. In PreAP we also built molecular structures and predicted the shape of the molecules in 3D space.

AP Chemistry just completed a unit on intermolecular forces and phase changes. We are now being colligative properties and solutions.

Physics:

We have had a fun semester working our way through motion, forces, and energy. We are wrapping up that unit now with the Egg Drop Lab. Each group of students designed an experiment that will protect an egg from cracking when dropped from a high height.