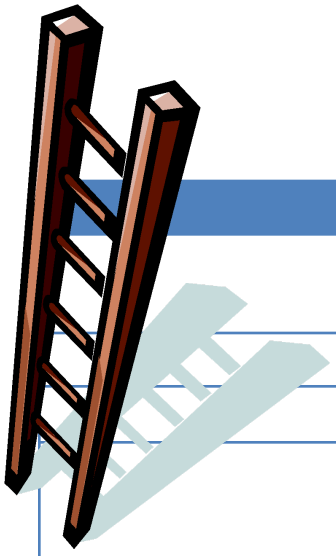
Biology

Unit 1 Learning Targets

Nature of Science (TEKS 1.A-B, 2.A-H)
I can communicate valid conclusions supported by data.
I can analyze and predict trends from data.
I can evaluate limitations of science.
I can plan and implement investigations, including asking questions, writing testable hypotheses, and selecting equipment and technology.
I can collect and organize data and make measurements with accuracy and precision using scientific tools.
I can distinguish between scientific hypotheses and scientific theories.
I can define science.
I can identify, locate, and use safety equipment in the laboratory.



Enzymes (2.G, 3.E, 9.C)
I can evaluate the effects of external factors on enzymatic activity.
I can collect and analyze data on enzyme reactions.
I can evaluate the limitations of the enzyme model.
I can use models to identify and explain the components of an enzymatic a reaction including substrate, product, and active site.
I can explain the effects of enzymes on activation energy.
I can describe an enzyme and its function.
I can identify reactants and products in a chemical equation.
Biomolecules (9.A, D)
I can differentiate between the structures, functions and examples of the four biomolecules.
I can identify each biomolecule, including proteins, lipids, carbohydrates, nucleic acids.
I can analyze how polymers are built and broken down.
I can distinguish between a monomer and a polymer.

I can identify reactants and products in a chemical equation.
I can describe the purpose of chemical bonds.