**CHEMISTRY**

**SECOND SEMEMSTER OVERVIEW**

**Topics**

* **Changes in Matter**...kinetic theory of matter, density, reactions, equations, balancing chemical equations
* **Chemical Reactions**...three basic types, decomposition, formation, combustion, atomic mass, molecular mass
* **Stoichiometry**...Concentrations, Moles, Reactants, Chemical Equations
* **Acid-Base Chemistry**...acids & bases, ionic compounds, pH scale, reactions, concentration & dilution
* **Solutions**...solutes dissolve in solvents, solubility, energy changes, freezing point, boiling point
* **Gases**...pressure, Boyle's law, Charles's law, noble gases, Dalton's law, vapor pressure
* **Transitional Physical Science Topics**...measuring matter, states of matter, heat (nature, expansion, transfer, as energy, changes of state), four fundamental forces (gravity, strong atomic force, weak atomic force, electromagnetic force), motion, electrostatics, magnetism, electricity