**Chapter 12 – Gases Study Guide**

* Know the properties of gases
* Know the differences in densities between solids, liquids and gases.
* SI units for pressure.
* What pressure is
* Standard temperature
* Standard Pressure – All 4 units!
* Volume of 1 mole of any gas at STP
* Know Kinetic Molecular Theory
  + What it states and how it relates to gas laws.
* Understand Boyle’s Law
  + Concepts and Equation
* Understand Charles’s Law
  + Concepts and Equation
* Understand Gay-Lussac’s Law
  + Concepts and Equation
* Understand Avogadro’s Law
  + Concept and Equation
* What is the difference between ideal gases and real gases.
* Understand the Ideal Gas Law
  + Concepts and Equation
  + How to calculate the gas constant
    - The three different gas constants we can use.
* Diffusion
* Effusion
* Graham’s Law of Diffusion
  + Concept and Equation
* Gay-Lussac’s Law of Combining Volumes
* Gas Stoichiometry
* Dalton’s Law of Partial Pressure
* Did I miss anything?