**AP Chemistry Review Checklist**

We will spend this week reviewing for our exam on Friday. We will go over nomenclature (naming compounds) on Tuesday, math and conversions on Wednesday, and stoichiometry (moles) on Thursday.

**By Friday, you should be able to...**

**1) Understand names and formulas for elements and compounds:**

* Write formulas for ionic and covalent compounds (when given the name)
* Write names for ionic and covalent compounds (when given the formula)
* Understand the • Multiple Proportions, and give examples of where it is applied
* Be able to identify the names and formulas (with charges!) for polyatomic ions
* Explain the difference between ionic compounds (aka salts) and covalent compounds (aka molecular compounds)
* Be able to “read” information on an element using the periodic table (atomic mass, number of protons, neutrons, and electrons, etc)

**2) Use the metric system to make measurements and convert between measurements**

* Know and be able to use metric prefixes ranging from “giga-” to” “pico-”
* Be able to convert between metric measurements
* Be able to explain the difference between mass, volume, length, and density, and give units for each one
* Be able to calculate mass, volume, or density given a set of data

**3) Use the concept of “moles” to calculate and compare values for atomic mass, molar mass, particle number, and mass by weight.**

* Be able to find atomic mass for an element using the periodic table
* Be able to calculate molar mass for a given compound
* Be able to calculate the number of particles in a sample, given the mass of the sample
* Be able to describe the relationship between particle number, molar mass, and mass
* Be able to calculate the number of moles of a substance given the mass of the substance
* Be able to describe trends for atomic mass in the periodic table

Practice problems (in Zumdahl):