**CH30S Stoichiometry & Chemical Reactions Part 2 Test Review**

Naming Compounds (review)

* How to name ionic / covalent compounds given formulas
* Determine formula given name of compound
* Diatomic molecules (HOFBrINCl)
* Hydrates (extra water!)

Empirical & Molecular Fomulas

* Determine molar masses of elements, or molecular and ionic compounds
* Use molar mass to determine percent composition for each element in compound
* Use percentage composition to determine the empirical formula
* Convert a molecular formula into an empirical formula
* Convert an empirical formula into a molecular formula given molar mass

Chemical Equations (review) & Molar ratio

* Write chemical equation given reactants and products
* Balance chemical equation by adding coefficients
* Write molar ratios from the balanced equation

Moles – Mass – Volume - Particle Calculations for Chemical Reactions

* Moles – moles
* Moles - Mass
* Mass – Mass
* Mass - Volume
* Mass or Moles - Particles

\*know when to use Avogadro’s number & Molar volume (constants!)

Limiting Reactant

* Prove with calculations which reactant is limiting, and what excess reactant will remain

Percent Yeild

* Calculate the predicted amount of product, and calculate percent yield when given the actual amount of product obtained from a reaction