**Unit 2 Study Guide – Stoichiometry and Nomenclature**

Reaction Types

* Single Replacement Reaction
* Double Replacement Reaction
* Combustion
* Decomposition Reaction
* Synthesis Reaction

Bonds and Nomenclature

* Ionic Bond
* Covalent Bond
* Naming Ionic Compounds
* Naming Covalent Compounds
* Naming Acids
* Chemical Formula
* Empirical Formula
* Molecular Formula
* Structural Formula
* Ball and Stick Model
* Space Filling Model
* Diatomic Elements
* Polyatomic Ions
* Hydrate
* Anhydrate

Stoichiometry

* Atomic Mass
* Formula Mass
* Molar Mass
* Empirical Mass
* Balancing Equations
* Mole ratio
* Mole Highway Conversions
* Combustion Analysis
* Limiting Reactant
* Excess Reactant
* Mass percent composition

Organic Compounds

* Hydrocarbon
* Alkane
* Alkene
* Alkyne
* Functional groups
* Alcohol
* Ether
* Aldehyde
* Ketone
* Carboxylic acid
* Ester
* Amine

Laboratory Techniques

* Gravimetric Analysis
* Water Hardness
* Green Chemistry