

2nd SEMESTER CHEMISTRY FINAL REVIEW

Chapter 10

What is a mole?

Conversions from grams to moles, moles to moles, molecules to grams, etc

Percent composition of a compound

Calculating empirical formulas

Calculating molecular formulas

Chapter 11

Word equations

Chemical equations and balancing

Classifying chemical reactions

Net ionic equations

Prediction of a precipitate

Chapter 12

Stoichiometry

- mole to mole
- mass to mole
- mass to mass
- volume to mass, etc

Limiting reagents

Percent yield

Chapter 13 (we did with gas laws – chapter 14)

Kinetic theory

Barometer problems

Eudiometer problems (U-tube)

Properties of liquids, solids, gases

Chapter 17 (we did a couple quick problems after stoichiometry)

Energy stoichiometry

Exothermic vs. endothermic

Heat capacity vs. specific heat

Heat equation

Chapter 14

Boyle's law

Charles' law

Gay-Lussac law

Combined gas law

Ideal gas law

Collecting gas over water

Chapter 16 – Solutions

Chapter 19 – Acids and bases

Chapter 8 – Molecular shapes