Chemistry
Test #2
Key Words and Concepts

Words:

reactants
products
density
mole
ionic compound
coefficient
subscript
synthesis
decomposition
combustion
single replacement
double replacement
molecular (covalent) compound
activity series
percent composition

Concepts:

- Do density calculations for a substance given experimental data
- Convert units using dimensional analysis
- Do mole conversions involving grams, moles, atoms, molecules, and formula units
- Determine the number of sig figs in a measurement
- Use sig fig rules when performing a calculation
- Be able to identify an element as metal, nonmetal, or metalloid
- Write formulas and name compounds for ionic compounds and molecular compounds
- Use the classical (-ic/-ous) naming system for compounds containing Cu, Pb, Fe, & Sn
- Naming and writing formulas for binary and ternary acids
- Know the common charges for Group 1, Group 2, Group 13, Group 15, Group 16, and Group 17 elements.
- Know the common charges of copper, lead, tin, silver, zinc, and iron.
- Know the formulas and charges for the polyatomic ions assigned in class.
- Balance chemical equations and understand the conceptual differences between subscripts and coefficients
- Determine types of reactions
- Predict products of a chemical reaction
- Use an activity series to predict single replacement reactions
- Know how to use laboratory equipment
- Be able to calculate percent composition

Remember! Anything we've done this year is "fair game", including labs. This is merely a guide to help you prepare for the test. This list is not necessarily comprehensive.