Brief Outline of Chapters for Exam #2

Chapter 5 (~30%)

I. Types of Compounds
   A. Molecular
   B. Ionic

II. Naming Ionic Compounds
   A. Binary Ionic Compounds
   B. Compounds in Water
      - Ionic, Molecular (Acids, Bases, Neither)
      - Dissociation vs. Ionization
   C. Ionic Compounds with Polyatomic Anions and Cations

III. Naming Molecular Compounds

IV. Naming Acids
   A. Binary Acids
   B. Acids from Oxyanions

V. Writing Formulas from Names

Chapter 6 (Chp 6 and 7 ~ 55%)

I. Chemical Reactions and Equations
   A. When has a Reaction Occurred?
   B. Representing Reactions with Chemical Equations
   C. Balancing Chemical Equations

Chapter 7

I. Precipitation Reactions and Solubility Rules
   A. Double Displacement Reactions
   B. Complete, total ionic, and net ionic equations

II. Acid Base Reactions
   A. Double Displacement Reactions
   B. Complete, total ionic, and net ionic equations

III. Oxidation Reduction Reactions

IV. Combustion Reactions
Chapter 8 (~15%) (Finished on Monday)

I. Counting Atoms

A. Atomic Masses and the Periodic Table (amu vs. grams)
B. Moles and grams
   - Avogadro’s number and calculations of atoms, molecules, moles, and ions
C. Molar Mass and the Periodic Table (Finished on Monday)
   - Calculations

II. Empirical Formulas (May not be Covered ?)