

AP Chemistry **Chapter Summaries for Chapters 1,2, and 3**

Chapter 1

Common Prefixes

Significant Figures and Calculations, Rounding

Dimensional Analysis

Temperature Conversions (memorize °C to K and back)

Density

Common Terms

Chapter 2

Know what these scientists were known for or accomplished:

Boyle, Priestly, Lavoisier, Dalton, Avagadro, JJ Thomson, Millikan, Rutherford

Isotope Notation

Ions (anions vs cations)

Periodic Table Organization

Know names and symbols of the following elements: 1-38,47,48,50,51,53-56,78-80,82,92

Naming Compounds (Types I, II, III, polyatomic)

Chapter 3

Calculations between grams, moles, and atoms or molecules

Molar mass

Determining % Composition

Determining empirical and molecular formula of a compound

Balancing chemical equations

Using chemical equations to calculate masses or moles

Limiting Reactant problems

Percent Yield/Percent Error

Hydrates

Isotopes