

AP Chemistry – Unit 1 Assignment Sheet: Chemistry Basics

Chapter 1: Chemical Foundations

Reading: pages 1 – 20

Homework Assignments: pages 33 – 34d: 24, 30, 31, 33, 35, 36, 39, 40, 43, 45, 81, 83, 85, 87

Topics:

- 1.1 Chemistry: An Overview
- 1.2 Scientific Method
- 1.3 Units of Measurement
- 1.4 Uncertainty in Measurement
- 1.5 Significant Figures (digits) in Calculations
- 1.6 Dimensional Analysis
- 1.7 Temperature
- 1.8 Density
- 1.9 Classification of Matter

Chapter 2: Atoms, Molecules, and Ions

Reading: pages 37-40, 46-63

Homework Assignments: 1. pages 67 – 67d: 32, 35, 41, 59, 62, 65, 69, 71, 74, 76, 84, 90, 92
2. Memorize Polyatomic Ions (see the list!)

Topics:

- 2.1, 2.3, 2.4 (NOTE: We will save history/people for next unit)
- 2.2 Fundamental Chemical Laws
- 2.5 Modern View of Atomic Structure
- 2.6 Molecules and Ions
- 2.7 Introduction to the Periodic Table
- 2.8 Naming Simple Compounds
- Prefixes for Organic Compounds (Ch. 22.1)