



Introductory Chemistry

First Semester/Term: 13 Labs

Version 1

Introduction to Chemistry and Experimental Procedures

- Lab 1: Laboratory Safety and Procedures
- Lab 2: Thinking Like a Chemist: The Scientific Method

Measurements and Their Applications

- Lab 3: Data Analysis and Graphing
- Lab 4: Types of Matter

Properties of Matter and Energy

- Lab 5: Exploring Solubility
- Lab 6: Examination of Physical and Chemical Properties
- Lab 7: Measuring Heats of Reactions
- Lab 8: Distinguishing Between Endothermic and Exothermic Reactions

Atoms and Atomic Theory

- Lab 9: Electron Configuration
- Lab 10 : Electromagnetic Radiation

Chemical Bonding and Molecular Structure

- Lab 11: Molecular Geometry: The VSEPR Model
- Lab 12: Types of Chemical Bonds
- Lab 13 : Bond Polarity and Dipole Moments

