

Chemistry 112 Review Outline**Chapter 4:Atomic Structure**

- 4.1-Defining the Atom**
- 4.2-Structure of the Nuclear Atom**
- 4.3-Distinguishing Among Atoms**

Chapter 5:Electrons In Atoms

- 5.1-Models of Atoms**
- 5.2-Electron Arrangement in Atoms**

Chapter 6:The Periodic Table

- 6.1-Organizing the Elements**
- 6.2-Classifying the Elements**
- 6.3-Periodic Trends**

Chapter 7:Ionic and Metallic Bonding

- 7.1-Ions**
- 7.2-Ionic Bonds and Ionic Compounds**

Chapter 8:Covalent Bonding

- 8.1-Molecular Compounds**
- 8.2-The Nature of Covalent Bonds**
- 8.3-Bonding Theories (VSEPR Theory)**
- 8.4-Polar Bonds and Molecules**

Chapter 9:Chemical Names and Formula

- 9.1-Naming Ions**
- 9.2-Naming and Writing Formulas for Ionic Compounds**
- 9.3-Naming and Writing Formulas for Molecular Compounds**
- 9.4-Naming and Writing Formulas for Acids and Bases**

Chapter 10:Chemical Quantities

- 10.1-The Mole:A Measurement of Matter**
- 10.2-Mole/Mass and Mole/Volume Relationships**
- 10.3-Percent Composition and Chemical Formula**

Chapter 11:Chemical Reactions

- 11.1-Describing Chemical Reactions**
- 11.2-Types of Chemical Reactions**
- 11.3-Reactions in Aqueous Solutions**

Chapter 12:Stoichiometry

- 12.1-The Arithmetic of Equations**
- 12.2-Chemical Calculations**
- 12.3-Limiting Reagent and Percent Yield**