Physical Science Chapter 6 Notes Outline

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Chemical Bonds – Pages 156-186**

6.1 Ionic Bonding-

Stable Electron Configurations-

**Electron Dot Diagram-**

Ionic Bonds-

Transfer of Electrons-

Formation of Ions-

**Ion-**

**Anion-**

**Cation-**

Formation of Ionic Bonds-

**Chemical Bonds-**

**Ionic Bonds-**

Ionization Energy-

Ionic Compounds-

**Chemical Formula-**

Crystal Lattices-

**Crystals-**

Properties of Ionic Compounds-

**SECTION QUESTIONS**

1. **When is an atom least likely to react?**
2. **Describe one way an element can achieve a stable electron configuration.**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.2 Covalent Bonding-

**Covalent Bonds-**

Sharing Electrons-

Molecules of Elements-

**Molecule-**

Multiple Covalent Bonds-

Unequal Sharing of Electrons-

**Polar Covalent Bond-**

Polar and Nonpolar Molecules

Attraction between Molecules-

**SECTION QUESTIONS**

1. **What attractions hold atoms together in a covalent bond?**
2. **Name two factors that determine whether a molecule is polar.**
3. **What is a molecule?**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6.3 Naming Compounds and Writing Formulas

Describing Ionic Compounds

Binary Ionic Compounds-

Metals with Multiple Ions-

**Polyatomic Ions-**

Writing Formulas for Ionic Compounds-

Describing Molecular Compounds-

Naming Molecular Compounds-

Writing Molecular Formulas-

**SECTION QUESTIONS**

1. **What are the names of these ionic compounds?**
   1. **LiCl**
   2. **BaO**
   3. **Na3N**
   4. **PbSO4**
2. **Name the molecular compounds with these formulas :** 
   1. **P2O5**
   2. **CO**

6.4 The Structures of Metals

**Metallic Bonds-**

Explaining Properties of Metals-

**Alloys-**

Copper Alloys-

Steel Alloys-

Other Alloys-

**SECTION QUESTION**

1. **Why are metals good conductors of electric current?**