**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Study Guide Chemistry**

**Nomenclature**

Name the following Ionic compounds. Draw their Lewis Dot Structures.

1. KCl potassium chloride
2. LiF lithium fluoride
3. Na2S sodium sulfide
4. Rb2O3 rubidium oxide
5. Ca3N2 calcium nitride

Name the following compounds that have transition metals.

1. FeBr3 Iron (III) bromide
2. FeBr2 Iron (II) bromide
3. CrO3 Chromium (VI) oxide
4. CrO4 Chromium (VIII) oxide
5. CrO5 Chromium (X) oxide

Name the following compounds that have polyatomic ions

1. Fe(NO3)2 Iron (II) nitrate
2. Zn(NO2)2 Zinc nitrite
3. CaCO3 Calcium carbonate
4. KOH potassium hydroxide
5. HCO3 hydrogen carbonate

Given the names what are the formulas of the following compounds.

1. Cesium hydroxide CsOH
2. Iron (II) sulfite FeSO3
3. Sodium carbonate Na2CO3
4. Lithium cyanide LiCN
5. Titanium (II) carbonate Ti2CO3

What are the names of the following binary acids in their aqueous forms?

1. HF hydrofluoric acid
2. HBr hydrobromic acid
3. HI hydroiodic acid
4. H2S hydrosulfuric acid
5. H2Se hydroselenic acid

What are the names of the following tertiary acids?

1. HClO3 chloric acid
2. HNO3 nitric acid
3. HNO2 nitrous acid
4. H2CO3 carbonic acid
5. H3PO4 phosphoric acid

What are the formulas for the following acids?

1. Hydrochloric acid HCl
2. Hydrosulfuric acid H2S
3. Hydroiodic acid HI
4. Hydrobromic acid HBr
5. Hydrofluoric acid HF
6. Phosphoric acid H3PO4
7. Chloric acid HClO3
8. Chlorous acid HClO2
9. Nitric acid HNO3
10. Nitrous acid HNO2

What are the names of the following covalent compounds? Draw their Lewis Dot Structures.

1. N2O5 Dinitrogen pentaoxide
2. IF7 Iodine hexafluoride
3. SiBr4 Silicon tetrabromide
4. P2F3 Diphosphorous trifluoride
5. As3N2 Triarsenic dinitride
6. Se2O Diselenium monoxide
7. S2Br5 Disulfur pentabromide
8. CCl6 Carbon hexachloride
9. CF5 Carbon pentafluoride
10. N3O8 Trinitrogen octaoxide

Given the names what are the formulas of the following compounds.

1. Potassium tetrachloride KCl4
2. Iron (II) sulfate FeSO4
3. Phosphoric acid H3PO4
4. Dinitrogen pentaoxide N2O5
5. Lithium cyanide LiCN
6. Sulfur hexafluoride SF6