NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ DATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_ PERIOD\_\_\_\_\_\_\_\_\_

**Covalent Naming** Nonmetals….prefix is the subscript

1. ***Write the formulas for the following compounds.***
2. nitrogen dioxide NO2
3. carbon tetrachloride CCl4
4. phosphorus pentachloride PCl5
5. silicon dioxide SiO2
6. arsenic tribromide AsBr3
7. dinitrogen pentoxide N2O5
8. sulfur hexafluoride SF6
9. carbon disulfide CS2
10. diphosphorus decoxide P2O10
11. dinitrogen monoxide N2O Typo, should say mono
12. ***Write names for each of the following compounds.*** Nonmetals - prefix
13. AsI3 Arsenic triiodide
14. BCl3 Boron trichloride
15. CO Carbon monoxide
16. SiO2 Silicon dioxide
17. P2S8 Diphosphorus octasulfide
18. SbF5 Antimony pentafluoride
19. N2O3 Dinitrogen trioxide
20. CO2 Carbon dioxide
21. N2O Dinitrogen monoxide
22. ClF6 Chlorine hexafluoride

**Ionic Naming**

1. ***Write the names for the following compounds.*** Ionic

## 1. K2SO4 Potassium sulfate

2. Ag­2SO4 Silver sulfate

3. Fe(OH)3 Iron (III) hydroxide

4. Al2(SO3)3 Aluminum sulfite

## 5. NH4NO2 Ammonium nitrite

## 6. CuS Copper (II) Sulfide

7. CaBr2 Calcium bromide

8. Al2O3 Aluminum oxide

9. Ba3(PO4)2 Barium phosphate

10. (NH4)2SO4 Ammonium sulfate

1. ***Write formulas for each of the following compounds.*** Need charges
2. Copper (I) chromate Cu2CrO4
3. Aluminum nitrate Al(NO3)3
4. Iron (II) carbonate FeCO3
5. Potassium phosphate K3PO4
6. Magnesium sulfide MgS
7. Aluminum sulfite Al2(SO3)3
8. Iron (III) bromide FeBr3
9. Lithium hydroxide LiOH
10. Ammonium carbonate (NH4)2CO3
11. Chromium (III) acetate Cr(C2H3O2)3

**Mixed Ionic and Covalent Naming**

***Write the name & formulas for the following compounds.***

1. Na2CO3  Metal…. **Sodium Carbonate**

2. P2O5  Nonmetals….need prefix…..**Diphosphorus pentoxide**

3. NH3  Nonmetals….need prefix…..**Nitrogen trihydride**

4. FeSO4  Metal….transition -find charge….SO4 is -2….**Iron (II) Sulfate**

5. CO Nonmetals….need prefix…..**Carbon Monoxide**

6. dinitrogen trioxide Prefix…..determine number….**N2O3**

7. ammonium nitride Poly ionic…..find charges…..NH4+1 N-3 **(NH4)3N**

8. phosphorus trifluoride Prefix…..determine number….**PF3**

9. lead (IV) oxide Metal….find charge….Pb+4 O-2…. **PbO2**

10. silver phosphate Metal….find charge….Ag+1 PO4-3…. **Ag3PO4**

11. Mg(OH)2 Metal…. **Magnesium hydroxide**

1. S2O Nonmetals….need prefix…..**Disulfur monoxide**
2. P2S8 Nonmetals….need prefix…..**Diphosphorus octasulfide**
3. PbSO4 Metal….transition -find charge….SO4 is -2….**Lead (II) Sulfate**
4. AgCl Metal….transition -Silver no RomNum….**Silver chloride**
5. BrI3 Nonmetals….need prefix…..**Bromine triiodide**
6. lead (IV) carbonate Metal….transition -find charge….CO3-2­**…Pb(CO3)2**
7. barium nitrate Metal….find charge….Ba+2 NO3-1….**Ba(NO3)2**
8. rubidium sulfite Metal….find charge….Rb+1 SO3-2….**Rb2SO3**
9. sulfur pentabromide Prefix…..determine number….**SBr5**