

Ionic Nomenclature**Directions:** Name the following compounds.

1. CaCO_3 _____
2. KCl _____
3. FeSO_4 _____
4. LiBr _____
5. Al(OH)_3 _____
6. Fe_2O_3 _____
7. $\text{Zn}_3(\text{PO}_4)_2$ _____
8. SrF_2 _____
9. $\text{CuC}_2\text{H}_3\text{O}_2$ _____
10. PbO _____

Directions: Write the formulas for the following names

1. Magnesium Nitrite _____
2. Nickel (III) Bromide _____
3. Sodium Phosphide _____
4. Silver Sulfite _____
5. Manganese(II)Hydroxide _____
6. Aluminum Acetate _____
7. Tin (IV) Sulfide _____
8. Silver Nitride _____
9. Ammonium Chloride _____
10. Iron (III) Oxide _____

Covalent Nomenclature**Directions:** Name the following compounds

1. SO_2 _____
2. NO_2 _____
3. PCl_5 _____
4. NH_3 _____
5. OF _____
6. C_2Cl_4 _____
7. P_2O_7 _____
8. N_2Cl_3 _____
9. SF_6 _____
10. CO _____

Directions: Write the compounds for the following names.

1. Carbon disulfide _____
2. Xenon tetrafluoride _____
3. Phosphorus trichloride _____
4. Octachloride monoxide _____
5. Trinitrogen heptafluoride _____
6. Dihydrogen monoxide _____
7. Pentasulfur hexacarbide _____
8. Silicon dioxide _____

Naming Compounds (All Mixed Up!)

Directions: Name the following compounds; remember they can be either ionic or covalent so be sure to use the correct rules.

1. CuCN _____
2. NiCO₃ _____
3. BCl₄ _____
4. CBr₇ _____
5. Zn(OH)₂ _____
6. Ag₃N _____
7. MnS·5H₂O _____
8. Li₃PO₄ _____
9. N₂O₃ _____

Directions: Write the compounds for the following names. Remember they can be either ionic or covalent so be sure to use the correct rules.

1. Ammonium phosphate _____
2. Calcium chloride _____
3. Diphosphorous pentoxide _____
4. Lead (IV) chromate _____
5. Zinc Nitrate _____
6. Strontium bromide _____
7. Tetrachlorine dibromide _____
8. Copper (II) sulfate dihydrate _____
9. Iron (II) oxide _____
10. Hexasulfur trifluoride _____

Naming Acids**Directions:** Name the following acids.

1. H_3PO_4 _____
2. HCl _____
3. H_2SO_4 _____
4. HNO_2 _____
5. HI _____
6. $\text{HC}_2\text{H}_3\text{O}_2$ _____
7. H_2CO_3 _____
8. HBr _____

Directions: Write the compound for the following acids.

9. Chlorous acid _____
10. Sulfuric acid _____
11. Acetic acid _____
12. Hydrocyanic acid _____
13. Hydroselenic acid _____
14. Carbonic acid _____
15. Perchlorous acid _____
16. Bromic acid _____

Nomenclature Errors

Directions: Identify the errors in the names or compounds below. Be sure to correct the error on the line provided.

1. aluminum (III) iodide _____

2. Al_3O_2 _____

3. $(\text{NH}_4)_3\text{Cl}_2$ _____

4. lead (II) oxygen _____

5. monocalcium dioxide _____

6. $\text{K}(\text{ClO}_2)$ _____

7. $(\text{OH})_3\text{Al}$ _____

8. $\text{Cr}_4(\text{CN})_3$ _____

9. copper (I) chloric _____

10. NiNO_{32} _____

11. Mg_2F _____

12. ClK _____

13. Ca_2O_2 _____

14. sodium (I) fluoride _____

15. magnesium dihydroxide _____