

Naming Chemical Compounds

The following are a good mix of naming and formula writing problems to help you get some practice. I will expect that you know how to name both ionic and covalent compounds in your work.

Name the following chemical compounds:

- 1) NaBr _____
- 2) $\text{Ca}(\text{C}_2\text{H}_3\text{O}_2)_2$ _____
- 3) P_2O_5 _____
- 4) $\text{Ti}(\text{SO}_4)_2$ _____
- 5) FePO_4 _____
- 6) K_3N _____
- 7) SO_2 _____
- 8) CuOH _____
- 9) $\text{Zn}(\text{NO}_2)_2$ _____
- 10) V_2S_3 _____

Write the formulas for the following chemical compounds:

- 11) silicon dioxide _____
- 12) nickel (III) sulfide _____
- 13) manganese (II) phosphate _____
- 14) silver acetate _____
- 15) diboron tetrabromide _____
- 16) magnesium sulfate heptahydrate _____
- 17) potassium carbonate _____
- 18) ammonium oxide _____
- 19) tin (IV) selenide _____
- 20) carbon tetrachloride _____

Name these compounds. They may be either ionic or covalent.

- 1) LiOH _____
- 2) PBr_3 _____
- 3) Na_2SO_4 _____
- 4) $(\text{NH}_4)_2\text{S}$ _____
- 5) CaCO_3 _____
- 6) CF_4 _____
- 7) NaNO_3 _____
- 8) P_2S_3 _____
- 9) $\text{Al}(\text{NO}_3)_3$ _____
- 10) $\text{Mg}(\text{OH})_2$ _____

Write the formulas for the following compounds. Remember, they may be either ionic or covalent compounds, so make sure you use the right method!

- 11) potassium oxide _____
- 12) phosphorus tribromide _____
- 13) calcium hydroxide _____
- 14) dinitrogen sulfide _____
- 15) carbon monoxide _____
- 16) diboron tetrahydride _____
- 17) phosphorus pentabromide _____
- 18) sulfur dichloride _____
- 19) sodium carbonate _____
- 20) aluminum acetate _____