

Naming Chemical Compounds (Ionic and Covalent)

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 _____
- 3) P₂O₅ _____
- 4) Ti(SO₄)₂ _____
- 5) FePO₄ _____
- 6) K₃N _____
- 7) SO₂ _____
- 8) CuOH _____
- 9) Zn(NO₂)₂ _____
- 10) V₂S₃ _____

Write the formulas for the following chemical compounds:

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

Mixed Ionic/Covalent Compound Naming

For each of the following questions, determine whether the compound is ionic or covalent and name it appropriately.

- 1) Na_2CO_3 _____
- 2) P_2O_5 _____
- 3) NH_3 _____
- 4) FeSO_4 _____
- 5) SiO_2 _____
- 6) GaCl_3 _____
- 7) CoBr_2 _____
- 8) B_2H_4 _____
- 9) CO _____
- 10) P_4 _____

For each of the following questions, determine whether the compound is ionic or covalent and write the appropriate formula for it.

- 11) dinitrogen trioxide _____
- 12) nitrogen _____
- 13) methane _____
- 14) lithium acetate _____
- 15) phosphorus trifluoride _____
- 16) vanadium (V) oxide _____
- 17) aluminum hydroxide _____
- 18) zinc sulfide _____
- 19) silicon tetrafluoride _____
- 20) silver phosphate _____