Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**Making Ionic Compounds Practice Worksheet**

**Part I. Write the formula for the compound given the ions.**

1. Ba+2 and S-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Pb+2 and HPO4-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Cu+2 and Br- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Mn+2 and ClO3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Hg+3 and NO3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Fe+3 and SO4-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Fe+3 and OH- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Ni+2 and PO4-3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Cr+3 and O-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Al+3 and PO4-3  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part II. Write the ion symbols for the following elements/polyatomic ions and then write the formula for the compound if they combined.**

1. Potassium and Carbonate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Titanium (II) and Chlorine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Barium and Phosphorous \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Ammonium and Sulfate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Lead (IV) and Sulfur \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**Making Ionic Compounds Practice Worksheet**

**Part I. Write the formula for the compound given the ions.**

1. Ba+2 and S-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Pb+2 and HPO4-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Cu+2 and Br- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Mn+2 and ClO3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Hg+3 and NO3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Fe+3 and SO4-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Fe+3 and OH- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Ni+2 and PO4-3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Cr+3 and O-2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Al+3 and PO4-3  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part II. Write the ion symbols for the following elements/polyatomic ions and then write the formula for the compound if they combined.**

1. Potassium and Carbonate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Titanium (II) and Chlorine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Barium and Phosphorous \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Ammonium and Sulfate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Lead (IV) and Sulfur \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part III. Write the chemical formula from the given chemical name.**

1. Manganese (II) Phosphide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Calcium Cyanide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Caesium Oxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Tin (IV) Sulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Silver (I) Selenide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Aluminum Bromide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Gallium Nitride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Hydrogen Bicarbonate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Gold (II) Chloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Zinc Phosphate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part III. Write the chemical formula from the given chemical name.**

1. Manganese (II) Phosphide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Calcium Cyanide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Caesium Oxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Tin (IV) Sulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Silver (I) Selenide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Aluminum Bromide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Gallium Nitride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
8. Hydrogen Bicarbonate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
9. Gold (II) Chloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
10. Zinc Phosphate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_