**Chapter 9 worksheet #2: ions and compounds Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Write the symbols and charges of the following ions:**

1. Magnesium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Carbide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Manganese (II) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. Fluoride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Aluminum \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Acetate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Zinc \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Phosphate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Chromium (III) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Nitrate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write the formulas for the following compounds:**

1. Zinc chloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Copper (II) cyanide \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Lead (IV) oxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Hydrogen selenide \_\_\_\_\_\_\_\_\_\_\_\_\_
3. Silver bromide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11. Copper (I) nitride \_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Sodium phosphate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. Nickel (II) acetate \_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Magnesium sulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 13. Potassium sulfate \_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Cobalt (II) fluoride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 14. Nickel (II) oxalate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. Barium oxide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 15. Gallium (III) acetate \_\_\_\_\_\_\_\_\_\_\_\_\_
8. Calcium phosphide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 16. Ammonium chloride \_\_\_\_\_\_\_\_\_\_\_\_\_

**Name the following compounds:**

1. Pb3(PO4)2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. CrI2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Cu(IO3)2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. AgNO3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Cr2O3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. CuSO4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Bi2(SO4)3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. NaCl \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. RbNO3 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 11. CsClO \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. CaTe \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 12. Th(OH)4 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_