**Chapter 9 worksheet #1: ion writing and naming Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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

1. Calcium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Carbide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Zinc \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. Fluoride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Iron (III) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Lead (IV) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Chloride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Iodide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Sulfide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Nitride \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name each of the following monatomic ions:**

1. Ag+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. F -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Ba2+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. S2- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Na+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Co2+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Br - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Cu2+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Fe2+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Te -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Name the following polyatomic ions:**

1. NO2 - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. ClO2- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. NH4+ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. NO3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. ClO3- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. SO32- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. PO43- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. CH3COO -  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. O22-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. ClO - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Write the formula for the following polyatomic ions:**

1. Cyanide \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Sulfite \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Perchlorate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 7. Ammonium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Acetate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 8. Hypochlorite \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Iodate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 9. Oxalate  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Carbonate\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 10. Permanganate \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_