

## Worksheet #1: Writing and Balancing Formula Equations

Step 1: Write each formula and balance each formula using SUBSCRIPTS.

Step 2: Balance the overall equation using coefficients.

1. sulfur + oxygen → sulfur dioxide

2. zinc + sulfuric acid → zinc sulfate + hydrogen

3. hydrogen + nitrogen → ammonia

4. hydrogen + chlorine → hydrogen chloride

5. carbon + water → carbon monoxide + hydrogen

6. calcium oxide + water → calcium hydroxide

7. phosphorus + oxygen → diphosphorus pentoxide

8. hydrochloric acid + sodium hydroxide → sodium chloride + water

9. barium chloride + sulfuric acid → barium sulfate + hydrochloric acid

10. aluminum sulfate + calcium hydroxide → aluminum hydroxide + calcium sulfate

11. ethane (C<sub>2</sub>H<sub>6</sub>) + oxygen → carbon dioxide + water

12. aluminum oxide → aluminum + oxygen