

Worksheet #1: Writing and Balancing Formula Equations

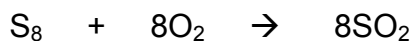
Step 1: Write each formula and balance each formula using SUBSCRIPTS.

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 (C₂H₆) + oxygen → carbon dioxide + water
12. aluminum oxide → aluminum + oxygen

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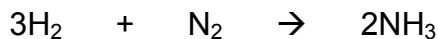
1. sulfur + oxygen → sulfur dioxide



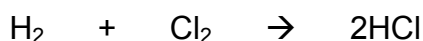
2. zinc + sulfuric acid → zinc sulfate + hydrogen



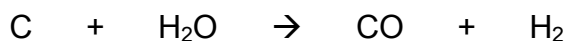
3. hydrogen + nitrogen → ammonia



4. hydrogen + chlorine → hydrogen chloride



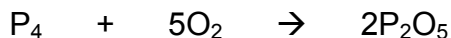
5. carbon + water → carbon monoxide + hydrogen



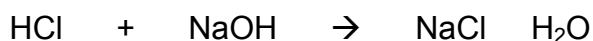
6. calcium oxide + water → calcium hydroxide



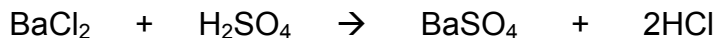
7. phosphorus + oxygen → diphosphorus pentoxide



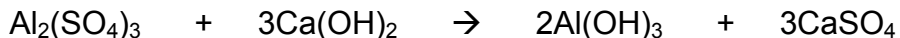
8. hydrochloric acid + sodium hydroxide → sodium chloride + water



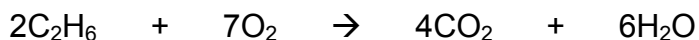
9. barium chloride + sulfuric acid → barium sulfate + hydrochloric acid



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



11. ethane (C₂H₆) + oxygen → carbon dioxide + water



12. aluminum oxide → aluminum + oxygen

