

Balancing Chemical Equations Worksheet PDF

Introduction

Balancing chemical equations ensures that the same number of atoms of each element is present on both sides of the equation. Use this worksheet to practice balancing equations.

Instructions

1. List reactants and products.
2. Count atoms for each element.
3. Balance each element with coefficients.
4. Verify that the equation is balanced.

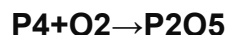
Worksheet

1. Equation 1:



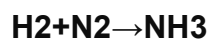
- Balanced Equation: _____

2. Equation 2:



- Balanced Equation: _____

2. Equation 3:



- Balanced Equation: _____

2. Equation 4:



- Balanced Equation: _____

Answer Key

1. $2\text{C}_2\text{H}_6 + 7\text{O}_2 \rightarrow 4\text{CO}_2 + 6\text{H}_2\text{O}$
2. $\text{P}_4 + 5\text{O}_2 \rightarrow 2\text{P}_2\text{O}_5$
3. $3\text{H}_2 + \text{N}_2 \rightarrow 2\text{NH}_3$
4. $8\text{Fe} + \text{S}_8 \rightarrow 8\text{FeS}$