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# Balancing Equations Worksheet With Answer PDF

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## Introduction

Balancing chemical equations is essential in understanding chemical reactions and ensuring the law of conservation of mass is maintained. This worksheet provides practice problems along with answers for self-assessment.

## Instructions

1. Identify the reactants and products.
2. Write the unbalanced equation.
3. Balance one element at a time using coefficients.
4. Ensure the number of atoms of each element is equal on both sides of the equation.

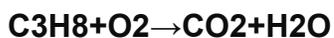
## Practice Problems

Problem 1:



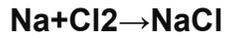
- Balanced Equation: \_\_\_\_\_

Problem 2:



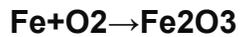
- Balanced Equation: \_\_\_\_\_

Problem 3:



- Balanced Equation: \_\_\_\_\_

Problem 4:



- Balanced Equation: \_\_\_\_\_

### Answers

1.  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$
2.  $\text{C}_3\text{H}_8 + 5\text{O}_2 \rightarrow 3\text{CO}_2 + 4\text{H}_2\text{O}$
3.  $2\text{Na} + \text{Cl}_2 \rightarrow 2\text{NaCl}$
4.  $4\text{Fe} + 3\text{O}_2 \rightarrow 2\text{Fe}_2\text{O}_3$