

Stoichiometry

Section 11.1 What is stoichiometry?

In your textbook, read about stoichiometry and the balanced equation.

For each statement below, write *true* or *false*.

- _____ 1. The study of the quantitative relationships between the amounts of reactants used and the amounts of products formed by a chemical reaction is called stoichiometry.
- _____ 2. Stoichiometry is based on the law of conservation of mass.
- _____ 3. In any chemical reaction, the mass of the products is less than the mass of the reactants.
- _____ 4. The coefficients in a chemical equation represent not only the number of individual particles but also the number of moles of particles.
- _____ 5. The mass of each reactant and product is related to its coefficient in the balanced chemical equation for the reaction by its molar mass.

Complete the table below, using information represented in the chemical equation for the combustion of methanol, an alcohol.

methanol + oxygen → carbon dioxide + water



Substance	Molar Mass (g/mol)	Number of Molecules	Number of Moles (mol)	Mass (g)
6. Methanol	32.05			
7. Oxygen gas	32.00			
8. Carbon dioxide	44.01			
9. Water	18.02			

10. What are the reactants? _____
11. What are the products? _____
12. What is the total mass of the reactants? _____
13. What is the total mass of the products? _____
14. How do the total masses of the reactants and products compare? _____

Chapter 11 Study Guide Answers The Mole

Harvard Project Physics



Chapter 11 Study Guide Answers The Mole:

This book delves into Chapter 11 Study Guide Answers The Mole. Chapter 11 Study Guide Answers The Mole is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Chapter 11 Study Guide Answers The Mole, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Chapter 11 Study Guide Answers The Mole
 - Chapter 2: Essential Elements of Chapter 11 Study Guide Answers The Mole
 - Chapter 3: Chapter 11 Study Guide Answers The Mole in Everyday Life
 - Chapter 4: Chapter 11 Study Guide Answers The Mole in Specific Contexts
 - Chapter 5: Conclusion
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6. In chapter 5, this book will draw a conclusion about Chapter 11 Study Guide Answers The Mole. The final chapter will summarize the key points that have been discussed throughout the book.
The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Chapter 11 Study Guide Answers The Mole.

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