

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 \rightarrow 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? _____

Stoichiometry Chapter 11 Study Guide Answer Key

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Whispering the Techniques of Language: An Emotional Journey through **Stoichiometry Chapter 11 Study Guide Answer Key**

In a digitally-driven world where displays reign supreme and quick communication drowns out the subtleties of language, the profound secrets and psychological subtleties concealed within words usually get unheard. Yet, set within the pages of **Stoichiometry Chapter 11 Study Guide Answer Key** a charming fictional prize pulsing with fresh thoughts, lies an exceptional journey waiting to be undertaken. Published by a talented wordsmith, that wonderful opus invites visitors on an introspective trip, gently unraveling the veiled truths and profound influence resonating within the very cloth of each word. Within the mental depths of the emotional evaluation, we will embark upon a genuine exploration of the book's core themes, dissect its captivating writing type, and succumb to the strong resonance it evokes heavy within the recesses of readers' hearts.

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