

CHAPTER **11** STUDY GUIDE

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.



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? _____

Mcgraw Hill Chemistry Study Guide

Julia Burdge



McGraw Hill Chemistry Study Guide:

Chemistry: Matter & Change, Study Guide For Content Mastery, Student Edition McGraw Hill, 2001-03-30 Study Guide and Reinforcement Worksheets allow for differentiated instruction through a wide range of question formats There are worksheets and study tools for each section of the text that help teachers track students progress toward understanding concepts Guided Reading Activities help students identify and comprehend the important information in each chapter

Glencoe Chemistry Glencoe/McGraw-Hill, 2002 *Chemistry* Raymond Chang, 1997-07-01 **A Study Guide to Chemistry** Julia Burdge, McGraw-Hill Higher Education, Raymond Chang, 2008-02-01 *Chemistry 11u Study Guide* Nixon NIXON, 2010-11-11 McGraw Hill Chemistry Review and Workbook Mary Millhollon, Richard H. Langley, 2022-09-23 The ideal tool for sharpening your chemistry skills This review guide and workbook will give you everything you need to excel in your high school classwork and on standardized tests Clear and concise explanations walk you step by step through each essential chemistry concept 500 practical review questions in turn provide extensive opportunities for you to practice what you ve learned If you are looking for material based on national or state standards this book is your ideal study tool Features Designed to help you excel in the classroom and on standardized tests Concise clear explanations offer step by step instruction so you can easily grasp key concepts 500 review questions provide extensive opportunities for you to practice what you ve learned Aligned to national standards including the Common Core State Standards as well as the standards of non Common Core states and Canada *McGraw-Hill's 500 MCAT General Chemistry Questions to Know by Test Day* John T. Moore, Richard H. Langley, 2012-06-29 A wealth of problem solving practice in the format that you want This book is the ideal way to sharpen skills and prepare for this MCAT topic Get the problem solving practice for general chemistry you need with McGraw Hill s 500 MCAT General Chemistry Questions to Know by Test Day Organized for easy reference and intensive practice the questions cover all essential topics and the answer key includes detailed explanations for each question Inside you ll find 500 MCAT general chemistry questions organized by subject Detailed solutions to every problem given in the answer key Expert coverage for topics covered by the MCAT **McGraw Hill Chemistry Review and Workbook** John T. Moore, Richard H. Langley, 2022-09-23 The ideal tool for sharpening your chemistry skills This review guide and workbook will give you everything you need to excel in your high school classwork and on standardized tests Clear and concise explanations walk you step by step through each essential chemistry concept 500 practical review questions in turn provide extensive opportunities for you to practice what you ve learned If you are looking for material based on national or state standards this book is your ideal study tool Features Designed to help you excel in the classroom and on standardized tests Concise clear explanations offer step by step instruction so you can easily grasp key concepts 500 review questions provide extensive opportunities for you to practice what you ve learned Aligned to national standards including the Common Core State Standards as well as the standards of non Common Core states and Canada *McGraw-Hill's 500 College Chemistry*

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Student Study Guide for Principles of General Chemistry Martin Silberberg,2012-04-02

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