

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? _____

The Mole Chapter 11 Study Guide

Joan Bouillon



The Mole Chapter 11 Study Guide:

Study Guide/Selected Solutions Manual Julie R. Frentrop, 2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book **Life: The Science of Biology Study Guide** William K. Purves, Edward Dzialowski, Lindsay Goodloe, Betty McGuire, Nancy Guild, Paula Mabee, 2003-12-26 New edition of a text presenting underlying concepts and showing their relevance to medical agricultural and environmental issues Seven chapters discuss the cell information and heredity evolutionary process the evolution of diversity the biology of flowering plants and of animals and ecology and biogeography Topics are linked by themes such as evolution the experimental foundations of knowledge the flow of energy in the living world the application and influence of molecular techniques and human health considerations Includes a CD ROM which covers some of the subject matter and introduces and illustrates 1 700 plus key terms and concepts Annotation copyrighted by Book News Inc Portland OR **Pediatric Critical Care Study Guide** Steven E. Lucking, Frank A. Maffei, Robert F. Tamburro, Neal J. Thomas, 2012-04-10 This is the first comprehensive study guide covering all aspects of pediatric critical care medicine It fills a void that exists in learning resources currently available to pediatric critical care practitioners The major textbooks are excellent references but do not allow concise reading on specific topics and are not intended to act as both text and study guide There are also several handbooks available but these are usually written for general pediatric residents and lack the advanced physiology and pathophysiology required for the higher level pediatric critical care practitioner **Study Guide for Maternity & Women's Health Care E-Book** Deitra Leonard Lowdermilk, Kitty Cashion, Kathryn Rhodes Alden, Ellen Olshansky, Shannon E. Perry, 2023-07-06 Corresponding to the chapters in the 13th edition of Lowdermilk's market leading Maternity and Women's Health Care this study guide offers a complete review of content and a wide range of activities to help you understand key nursing concepts and apply your knowledge It includes clinical judgment exercises and cases for the Next Generation NCLEX multiple choice and matching questions and more Answers are included in the back of the book Chapter review activities reinforce your knowledge of textbook content with fill in the blank matching multiple choice and short answer questions Perforated pages make it easy to use study guide activities as assignments to be handed in and graded Answer key at the end of the study guide allows you to assess your comprehension of key content NEW Clinical judgment sections and case studies for the Next Generation NCLEX help you prepare for the licensure exam and clinical practice *Students Study Guide* Fredeen, Pearson, 2003-07 **Study Guide for E. Russell Hardwick's Introduction to Chemistry** Joan Bouillon, 1984 **Study Guide for Chemistry by Steven S. Zumdahl** Martha B. Barrett, 1986 *Study Guide and Solutions Manual for Fundamentals of General, Organic, and Biological Chemistry* Susan McMurry, 1992 **Student Study Guide Fundamentals of Chemistry by David E. Goldberg** Margaret G. Kimble, 1994 **Fundamentals of Engineering Thermodynamics** Michael J. Moran, Howard N. Shapiro, Daisie D. Boettner, Margaret B. Bailey, 2010-12-07

This leading text in the field maintains its engaging readable style while presenting a broader range of applications that motivate engineers to learn the core thermodynamics concepts Two new coauthors help update the material and integrate engaging new problems Throughout the chapters they focus on the relevance of thermodynamics to modern engineering problems Many relevant engineering based situations are also presented to help engineers model and solve these problems

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