

**Stoichiometry Worksheet 2**  
**Chemistry**

Name \_\_\_\_\_

Date \_\_\_\_\_ Hour \_\_\_\_\_

1. In the reaction :  $2\text{Al}_2\text{O}_{3(s)} \rightarrow 4\text{Al}_{(s)} + 3\text{O}_{2(g)}$ , the mole ratios are:

$\text{Al}_2\text{O}_3$  to Al \_\_\_\_\_  $\text{Al}_2\text{O}_3$  to  $\text{O}_2$  \_\_\_\_\_ Al to  $\text{O}_2$  \_\_\_\_\_  $\text{O}_2$  to Al \_\_\_\_\_

2. In the reaction:  $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$ , the mole ratio of oxygen to water is: \_\_\_\_\_

3. In the reaction:  $\text{Ca} + \text{Cl}_2 \rightarrow \text{CaCl}_2$ , the mole ratio of chlorine to calcium is: \_\_\_\_\_

4. In the reaction:  $\text{Zn} + \text{H}_2\text{SO}_4 \rightarrow \text{ZnSO}_4 + \text{H}_2$ , the mole ratio of zinc to sulfuric acid is:  
\_\_\_\_\_

5. The equation for the Haber process is represented by:



To convert 9.0 moles of hydrogen to ammonia would require how many moles of nitrogen?

6. In the equation:  $2\text{KClO}_{3(g)} \rightarrow 2\text{KCl}_{(s)} + 3\text{O}_{2(g)}$ , how many moles of oxygen are produced when 3.00 moles of  $\text{KClO}_3$  decompose completely?

7. For the reaction:  $\text{C}_{(s)} + 2\text{H}_{2(g)} \rightarrow \text{CH}_{4(g)}$ , how many moles of  $\text{H}_2$  are required to produce 10.0 moles of  $\text{CH}_4$ ?

# Chapter 9 Stoichiometry Section 2 Worksheet

**O García**

A decorative graphic element consisting of a light blue horizontal bar with a rounded right end, and a red-to-white gradient semi-circle on the right side.

## Chapter 9 Stoichiometry Section 2 Worksheet:

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**MCAT Comprehensive Review 1999**, 1998-11 Complete Review of ALL the science you need to know Full Length Practice Test with complete explanations for each question 2 Full Length Verbal Reasoning Tests with detailed explanations and strategies

**Holt Chemistry** Ralph Thomas Myers, 2004 Handbook on Material and Energy Balance Calculations in Material Processing, Includes CD-ROM Arthur E. Morris, H. Alan Fine, Gordon Harold Geiger, 2011-09-06 This book approaches the subject of material and energy balances from two directions First it emphasizes the fundamental principles of the conservation of mass and energy and the consequences of these two principles Second it applies the techniques of computational chemistry to materials processing and introduces new software developed by the author especially for material and heat balances The third edition reflects the changes in the professional engineer's practice in the last 30 years reflecting the dramatic shift away from metallurgical engineering and the extractive industry towards materials engineering A large and growing number of recent graduates are employed in such fields as semiconductor processing environmental engineering and the production and processing of advanced and exotic materials for aerospace electronic and structural applications The advance in computing power and software for the desktop computer has significantly changed the way engineers make computations and the biggest change comes from the computational approach used to solve problems The spreadsheet program Excel is used extensively throughout the text as the main computational engine for solving material and energy balance equations and for statistical analysis of data The use of Excel and the introduction of the add-in programs enables the study of a range of variables on critical process parameters and emphasis is placed on multi device flowsheets with recycle bypass and purge streams whose material and heat balance equations were previously too complicated to solve by the normally used hand calculator The Excel based program FlowBal helps the user set up material and heat balance equations for processes with multiple streams and units

**MCAT Comprehensive Review, 2004** Kaplan, Inc, 2003 The bestselling MCAT prep guide is a must for pre med students preparing for the demanding Medical College Admissions Test MCAT The CD features one full length practice test with detailed explanations plus effective tips and strategies

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Peterson, 2008-08-06 From liquids and solids to acids and bases work chemistry equations and use formulas with ease Got a grasp on the chemistry terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin Have no fear this hands on guide helps you solve many types of chemistry problems in a focused step by step manner With problem solving shortcuts and lots of practice exercises you ll build your chemistry skills and improve your performance both in and out of the science lab You ll see how to work with numbers atoms and elements make and remake compounds understand changes in terms of energy make sense of organic chemistry and more 100s of Problems Know where to begin and how to solve the most common chemistry problems Step by step answer sets clearly identify where you went wrong or right with a problem Understand the key exceptions to chemistry rules Use chemistry in practical applications with confidence *Student Study Guide Fundamentals of Chemistry* by David E. Goldberg Margaret G. Kimble, 1994

*CliffsNotes AP Chemistry 2021 Exam* Angela Woodward Spangenberg, 2020-09-29 CliffsNotes AP Chemistry 2021 Exam gives you exactly what you need to score a 5 on the exam concise chapter reviews on every AP Chemistry subject in depth laboratory investigations and full length model practice exams to prepare you for the May 2021 exam Revised to even better reflect the new AP Chemistry exam this test prep guide includes updated content tailored to the May 2021 exam Features of the guide focus on what AP Chemistry test takers need to score high on the exam Reviews of all subject areas In depth coverage of the all important laboratory investigations Two full length model practice AP Chemistry exams Every review chapter includes review questions and answers to pinpoint problem areas **The Practice of Chemistry** Donald J.

Wink, Sharon Fetzner-Gislason, Sheila McNicholas, 2003-03 Students can t do chemistry if they can t do the math The Practice of Chemistry First Edition is the only preparatory chemistry text to offer students targeted consistent mathematical support to make sure they understand how to use math especially algebra in chemical problem solving The book s unique focus on actual chemical practice extensive study tools and integrated media makes The Practice of Chemistry the most effective way to prepare students for the standard general chemistry course and bright futures as science majors This special PowerPoint tour of the text was created by Don Wink [http://www.bfwpub.com/pdfs/wink/POC/PowerPoint\\_Final.ppt](http://www.bfwpub.com/pdfs/wink/POC/PowerPoint_Final.ppt) 832KB **Chemical Problem-solving by Dimensional Analysis** Arnold B. Loebel, 1978 *Basic Concepts of Chemistry, Study Guide* Leo J. Malone, 2000 The text s three main goals are to introduce chemistry as a living relevant science to encourage learning and critical thinking and to help readers overcome the math difficulties that impede their progress in chemistry Designed to help

readers master the principles of general chemistry As a prep book it promotes active involvement with the material There are special features throughout that reinforce concepts and help to develop strong problem solving and study skills Updated to Include an Interactive Learning Ware problems CD containing several of the chapter ending problems from the book in an interactive tutorial with feedback to help readers set up and solve problems **Study Guide to accompany Basic**

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*Basic Chemical Principles* Edward I. Peters,1988 **Basic Chemistry** G. William Daub,William S. Seese,1996 Written in a style and language that users without science backgrounds can understand This best selling introduction to the basic principles of chemistry draws on the reader s own experiences through analogies and cartoons to learn difficult concepts The clear systematic thinking approach to problem solving has also been highly praised by reviewers and users alike Countdown sections in each chapter consisting of five review questions keyed to previous material provide readers with a basis for material introduced in the new chapter Study exercises found immediately after new topics are introduced reinforce chapter problem material You and Chemistry marginal application icon relates chemistry to the real world End of chapter essays entitled Elements and Compounds relate the applications of specific elements or compounds to the readers life Study Guide for Chemical Principles [by] Steven S. Zumdahl Steven S. Zumdahl,Paul B. Kelter,1995 The Study Guide reflects the unique problem solving approach taken by the Chemical Principles text The new edition of the Study Guide includes many new worked out examples

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