

Unit 8 Worksheet 1: Mole relationships

For each of the problems below:

- Write the balanced chemical equation.
- Identify what is given (with units) and what you want to find (with units).
- Use coefficients from balanced equation to determine mole ratio.
- Show set up (organize it!).

- Hydrogen sulfide gas, which smells like rotten eggs, burns in air to produce sulfur dioxide and water. How many moles of oxygen gas would be needed to completely burn 8 moles of hydrogen sulfide?

Equation:	$\underline{\quad 2 \quad} \text{H}_2\text{S}_{(g)} + \underline{\quad 3 \quad} \text{O}_{2(g)} \rightarrow \underline{\quad 2 \quad} \text{SO}_{2(g)} + \underline{\quad 2 \quad} \text{H}_2\text{O}_{(g)}$				
Before	<u>2</u>	ex	<u>0</u>	<u>0</u>	3.0 mol O ₂
Change	<u>-2</u>	<u>-3</u>	<u>2</u>	<u>2</u>	
After	<u>0</u>	ex	<u>2</u>	<u>2</u>	

- Propane, C₃H₈, burns in air to form carbon dioxide and water. If 12 moles of carbon dioxide are formed, how many moles of propane were burned?

Equation: $2\text{Al} + 6\text{HCl} \rightarrow 2\text{AlCl}_3 + 3\text{H}_2$

Before	0.5	ex	0	0	1.50mol HCL
Change	-0.5	-1.5	+0.5	+0.5	
After	0	ex	0.5	0.75	

- Ammonia, NH₃, for fertilizer is made by causing hydrogen and nitrogen to react at high temperature and pressure. How many moles of ammonia can be made from 0.15 moles of nitrogen gas?

Equation: $3\text{H}_2 + \text{N}_2 \rightarrow 2\text{NH}_3$

Before	ex	1.25	0	2.50 mole
Change	-3.75	-1.25	+25	
After	ex	0	2.5	

Unit 7 1 Mole Relationships

David Baud

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Unit 7 1 Mole Relationships:

Basic Concepts of Chemistry Leo J. Malone, Theodore Dolter, 2008-12-03 Engineers who need to have a better understanding of chemistry will benefit from this accessible book It places a stronger emphasis on outcomes assessment which is the driving force for many of the new features Each section focuses on the development and assessment of one or two specific objectives Within each section a specific objective is included an anticipatory set to orient the reader content discussion from established authors and guided practice problems for relevant objectives These features are followed by a set of independent practice problems The expanded Making it Real feature showcases topics of current interest relating to the subject at hand such as chemical forensics and more medical related topics Numerous worked examples in the text now include Analysis and Synthesis sections which allow engineers to explore concepts in greater depth and discuss outside relevance

Student's Guide to Fundamentals of Chemistry Jo A. Beran, 2013-10-22 Student's Guide to Fundamentals of Chemistry Fourth Edition provides an introduction to the basic chemical principles This book deals with various approaches to chemical principles and problem solving in chemistry Organized into 25 chapters this edition begins with an overview of how to define and recognize the more common names and symbols in chemistry This text then discusses the historical development of the concept of atom as well as the historical determination of atomic weights for the elements Other chapters consider how to calculate the molecular weight of a compound from its formula This book discusses as well the characteristics of a photon in terms of its particle like properties and defines the wavelength frequency and speed of light The final chapter deals with the fundamental components of air and the classification of materials formed in natural waters This book is a valuable resource for chemistry students lecturers and instructors

Cambridge International AS and A Level Chemistry Revision Guide Judith Potter, Peter Cann, 2015-10-29 A revision guide tailored to the AS and A Level Chemistry syllabus 9701 for first examination in 2016 This Revision Guide offers support for students as they prepare for their AS and A Level Chemistry 9701 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes These features have been specifically designed to help students apply their knowledge in exams Written in a clear and straightforward tone this Revision Guide is perfect for international learners

Foundations of College Chemistry Morris Hein, Susan Arena, 2013-01-01 Learning the fundamentals of chemistry can be a difficult task to undertake for health professionals For over 35 years Foundations of College Chemistry Alternate 14th Edition has helped readers master the chemistry skills they need to succeed It provides them with clear and logical explanations of chemical concepts and problem solving They'll learn how to apply concepts with the help of worked out examples In addition Chemistry in Action features and conceptual questions checks brings together the understanding of chemistry and relates chemistry to things health professionals experience on a regular basis

Fundamentals of College Chemistry Jesse Hermon Wood, Charles William Keenan, William E. Bull, 1968 *The Practice of Chemistry* Donald J. Wink, Sharon Fetzer-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/POCPowerPoint_Final.ppt 832KB

Thermodynamics for Drug Product Design William Craig Stagner, 2025-09-23 Comprehensive reference reviewing how thermodynamic principles underpin the design of drug products and their applications Written in an easy to read and understand style Thermodynamics for Drug Product Design offers an abundance of real life drug product design examples applications personal anecdotes and solved problems that contextualize thermodynamic principles for the drug product design scientist Advanced undergraduate and beginning graduate students will learn to apply thermodynamic principles to create robust drug products and to predict prevent analyze and evaluate the root cause of product failures Professionals engaged in drug product design will find this book to be a rich and easy to use reference guide The first two chapters address some key basics of data reporting and analysis math and thermodynamic properties using simple and accessible language These chapters also help readers understand fundamental underlying definitions and physical relationships required to use thermodynamic laws in the design of drug products In later chapters the book focuses on six industrial pharmacy relevant thermodynamic topics the laws of thermodynamics Gibbs free energy equilibrium drug solubility equilibrium surface thermodynamics and adsorption phenomena Thermodynamics for Drug Product Design features chapters including Data Reporting and Analysis Underlying Thermodynamic Physical Property Relationships and Definitions The Laws of Thermodynamics Gibbs Free Energy Equilibrium Drug Solubility Equilibrium Surface Thermodynamics Adsorption Phenomena What others say comprehensive rigorous and logically organized the explanations flow effortlessly from the page BRUNO HANCOCK PhD FAAPS Editor JPharmSci has a unique style of communicating complex scientific issues KEN MORRIS PhD FAAPS Professor Emeritus Founding Director Lachman Institute unusual wide range of subjects unusual for detail DALE ERIC WURSTER PhD FAAPS Professor Emeritus 2019 AAPS President *Characterization and Properties of Petroleum Fractions* M. R. Riazi, 2005 The last three chapters of this book deal with application of methods presented in previous chapters to estimate various thermodynamic physical and transport properties of petroleum fractions In this chapter various methods for prediction of physical and thermodynamic properties of pure hydrocarbons and their mixtures petroleum fractions crude oils natural gases and reservoir fluids are presented As it was discussed in Chapters 5 and 6 properties of gases may be estimated more accurately than properties of liquids Theoretical methods of Chapters 5 and 6 for estimation of

thermophysical properties generally can be applied to both liquids and gases however more accurate properties can be predicted through empirical correlations particularly developed for liquids When these correlations are developed with some theoretical basis they are more accurate and have wider range of applications In this chapter some of these semitheoretical correlations are presented Methods presented in Chapters 5 and 6 can be used to estimate properties such as density enthalpy heat capacity heat of vaporization and vapor pressure Characterization methods of Chapters 2 4 are used to determine the input parameters needed for various predictive methods One important part of this chapter is prediction of vapor pressure that is needed for vapor liquid equilibrium calculations of Chapter 9

Problems in Physical Chemistry

JEE Main and Advanced Volume 1 Dr. RK Gupta, 2021-04-05 1 The book is prepared for the problem solving in chemistry 2 It is divided into 8 chapters 3 Each chapter is topically divided into quick theory Immediate Test and Knowledge Confirmation Test 4 At the end of the each chapter cumulative exercises for JEE Main Advanced for practice 5 Acid Test for JEE Mains Advance containing all types of questions asked in JEE A common phrase among JEE Aspirants that chemistry is the most scoring subject but the problems asked in JEE Exams are not directly related but they are based on multiple applications Introducing the all new edition of Problem Physical Chemistry JEE Main Advanced Volume 1 which is designed to develop the use of the concepts of chemistry in solving the diversified problems as asked in JEE The book divides the syllabus into 8 chapters and each chapter has been topically divided in quick theory different types of Solved Examination followed by Immediate Test along with the Topicwise short exercises Knowledge Confirmation Test At the end of each chapter there are separate cumulative exercises for JEE Main Advanced Acid Test for JEE Mains Advance are also provided containing all types of questions asked in JEE Detailed and explanatory solutions provided to all the questions for the better understanding TOC Mole concept and Stiochiometry Atomic Structure Stages of Matter 1 Stages of Matter 2 Thermodynamic Thermochemistry Chemical Equilibrium Ionic Equilibrium

Basic Principles and Calculations in Chemical Engineering
David Mautner Himmelblau, James B. Riggs, 2012 Best selling introductory chemical engineering book now updated with far more coverage of biotech nanotech and green engineering Thoroughly covers material balances gases liquids and energy balances Contains new biotech and bioengineering problems throughout

OCR A level Chemistry Student Book 1 Mike Smith, John Older, 2015-06-26 Exam Board OCR Level A level Subject Chemistry First Teaching September 2015 First Exam June 2016 This is an OCR endorsed resource Stretch and challenge your students knowledge and understanding of Chemistry build their mathematical and practical skills and provide plenty of assessment guidance with this OCR Year 1 Student Book Build understanding with a summary of prior knowledge and diagnostic questions at the start of each chapter to help bring students up to speed Support practical assessment with Practical Skill summaries that help develop your students knowledge and skills Test understanding and provide plenty of practice to assess progression with Test Yourself Questions and multiple choice questions Provide mathematical support with examples of method integrated throughout and a dedicated Maths in

Chemistry chapter Develop understanding with free online access to Test yourself Answers an Extended Glossary Learning Outcomes and Topic Summaries OCR A Level Chemistry Student Book 1 includes AS Level *An Introduction to Chemistry* Michael Mosher, Paul Kelter, 2023-03-18 This textbook is written to thoroughly cover the topic of introductory chemistry in detail with specific references to examples of topics in common or everyday life It provides a major overview of topics typically found in first year chemistry courses in the USA The textbook is written in a conversational question based format with a well defined problem solving strategy and presented in a way to encourage readers to think like a chemist and to think outside of the box Numerous examples are presented in every chapter to aid students and provide helpful self learning tools The topics are arranged throughout the textbook in a traditional approach to the subject with the primary audience being undergraduate students and advanced high school students of chemistry *Design and Synthesis of Organic Molecules Based on Molecular Recognition* Georges van Binst, 2012-12-06 A topic for a Solvay Conference should be general enough to conform with the great tradition of previous conferences On the other hand it should not be so broad that it can not be covered during the limited time of the conference After discussion of several such topics Design and Synthesis of Organic Molecules Based on Molecular Recognition was chosen According to Albert Einstein we live in an era of perfect methods and confused aims For example in organic chemistry the known synthetic methods allow us to prepare an astronomical number of compounds the gap between the possible and the relevant becomes larger every day After discovery and classification of the main types of reactions the study of the selectivity of reactions becomes of paramount importance One can learn quite a lot from Nature which uses molecular recognition to achieve selectivity in a degree so far unattainable by mere mortals To analyze the structural features applied by Nature to accomplish high molecular recognition and to simulate these features by synthesis have recently become therefore favorite occupations of chemists The purpose of this conference was to bring together two groups the analysts and the syntheticists to discuss the present status of the knowledge This monograph contains the chairman's introduction in which he has summarized the main points at issue and the contributions of the renowned scientists who participated The organizers hope that it will stimulate further research in this fascinating field

Mapping College Chemistry Stephen DeMeo, 2019-03-01 This text is a chemistry problem solving resource appropriate for teachers and their students who are enrolled in high school Advanced Placement Chemistry or in a first year college General Chemistry course The book incorporates a chemistry problem solving plan one that uses an innovative graphic organizer strategy The strategy successfully evaluated with students combines problem solving processes with chemical concepts that will allow students to solve the most common and difficult problems encountered in the first year of chemistry Topical problem solving will focus on limiting reactant stoichiometry identifying types of chemical reactions equilibrium acid base equilibria and electrochemistry Why would this resource be of interest to chemistry students To be successful to get into a well known college medical school physical therapy or graduate program often requires that students get an A in your

pre requisite Introductory General Chemistry course To make matters worse many college professors feel that only a few students should get A grades and therefore they give difficult exams that many students fail this is the weeding out process that every pre health student is apprehensive about To succeed in this competitive environment entails not just studying harder or longer it means re organizing textbook content so that it is meaningful to the student This is the first text of its kind to employ a reliable research based strategy that incorporates a decision based visual tool to solve chemistry textbook problems ones that can make or break a career

Water Chemistry Vernon L. Snoeyink, David Jenkins, 1991-01-16 A first level text stressing chemistry of natural and polluted water and its application to waste water treatment Discusses principles of chemical kinetics dilute solution equilibria effects of temperature and ionic strength and thermodynamics in relation to water chemistry Strong emphasis given to graphical procedures Contains numerous example problems Code of Federal Regulations , 1996 Complexity and Complex Chemo-Electric Systems Stanislaw Sieniutycz, 2021-02-09 Complexity and Complex Chemo Electric Systems presents an analysis and synthesis of chemo electric systems providing insights on transports in electrolytes electrode reactions electrocatalysis electrochemical membranes and various aspects of heterogeneous systems and electrochemical engineering The book describes the properties of complexity and complex chemo electric systems as the consequence of formulations definitions tools solutions and results that are often consistent with the best performance of the system The book handles cybernetics systems theory and advanced contemporary techniques such as optimal control neural networks and stochastic optimizations adaptive random search genetic algorithms and simulated annealing A brief part of the book is devoted to issues such as various definitions of complexity hierarchical structures self organization examples special references and historical issues This resource complements Sieniutycz recently published book Complexity and Complex Thermodynamic Systems with its inclusion of complex chemo electric systems in which complexities emergent properties and self organization play essential roles Covers the theory and applications of complex chemo electric systems through modeling analysis synthesis and optimization Provides a clear presentation of the applications of transport theory to electrolyte solutions heterogeneous electrochemical systems membranes electro kinetic phenomena and interface processes Includes numerous explanatory graphs and drawings that illustrate the properties and complexities in complex chemo electric systems Written by an experienced expert in the field of advanced methods in thermodynamics and related aspects of macroscopic physics

Environmental Exposure From Chemicals W. Brock Neely, 2018-01-18 This two volume series will describe the mechanisms that are operating on chemicals as they move in the environment Knowledge of these mechanisms is a vital component in performing a risk assessment Volume I will deal with the physical and chemical properties of a material and how these influence the degradation and dissipating reactions Volume 2 will address the transport of the chemical as it moves through the environment from the source to the final sink

Practical Environmental Analysis Miroslav Radojevic, Vladimir N Bashkin, 2007-10-31 New techniques improved understanding and

changes in regulations relating to environmental analysis means that students technicians and lecturers alike need an up to date guide to practical environmental analysis This unique book provides detailed instructions for practical experiments in environmental analysis The comprehensive coverage includes the chemical analysis of important pollutants in air water soil and plant tissue and the experiments generally require only basic laboratory equipment and instrumentation The content is supported by theoretical material explaining amongst other concepts the principles behind each method and the importance of various pollutants Also included are suggestions for projects and worked examples Appendices cover environmental standards practical safety and laboratory practice Building on the foundations laid by the highly acclaimed first edition this new edition has been revised and updated to include information on new monitoring techniques the Air Quality Index internet resources and professional ethics Like its predecessor this informative text is certain to be valued as an indispensable guide to practical environmental analysis by students on a variety of science courses and their lecturers

Reviews of the first edition I strongly urge academics in chemistry biology botany soil science geography and environmental science departments to give this book serious consideration as a course text Malcolm Cresser Environment Department University of York UK Destined to become a course text for many university courses a high quality informative introductory text there should be multiple copies on most university s library shelves Environmental Conservation

ENZYME TECHNOLOGY PRASAD, NOORALABETTU KRISHNA, 2011-04 Keeping in view the well established place of enzymes in the field of biotechnology and the recent development in biotech industries this comprehensive and well written textbook presents the fundamental concepts of enzyme technology emphasizing the practical and economic aspects of enzyme usage Beginning with an overview of enzymes giving insights into the physicochemical properties classifications sources mechanisms and characteristics of enzymes the text discusses the enzyme kinetics in detail It furnishes a great deal of information on potential of enzymes for their commercial exploitation The text then goes on to describe the biotechnical significance of enzymes with their applications in the fields of food and pharmaceutical industries The text is supported by a large number of solved examples and illustrative diagrams Primarily designed for undergraduate and postgraduate students of biotechnology and biochemical engineering the book will also be useful to professionals researchers and entrepreneurs

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