

Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{1 \text{ mole}}{63.5 \text{ g}} = 5.2 \times 10^{-2} \text{ mol or } 0.052 \text{ mol}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{1 \text{ mole}}{55.8 \text{ g}} = 7.92 \times 10^{-2} \text{ mol or } 0.0792 \text{ mol}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$0.050 \text{ g} \times \frac{1 \text{ mole}}{18.0 \text{ g}} = 2.78 \times 10^{-3} \text{ mol} \rightarrow 2.8 \times 10^{-3} \text{ mol}$$

4. What mass of water would you need to have 15.0 moles of H₂O?

$$15.0 \text{ moles} \times \frac{18.0 \text{ g}}{1 \text{ mole}} = 2.70 \times 10^2 \text{ g}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride is this?

$$737 \text{ g} \times \frac{1 \text{ mole}}{58.5 \text{ g}} = 12.6 \text{ mol}$$

Na	23.0
Cl	35.5
	<hr/> 58.5 g

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate). How many grams should the chef mass out?

$$0.050 \text{ moles} \times \frac{84.0 \text{ g}}{1 \text{ mole}} = 4.2 \text{ g}$$

Na	23.0
H	1.0
C	12.0
O	48.0
	<hr/> 84.0

7. Rust is iron(III) oxide. The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron(III) oxide are contained in 2.50 kg of rust?

$$2.50 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mole}}{159.6 \text{ g}} = 15.7 \text{ mol Fe}_2\text{O}_3$$

Fe	111.6
O	48.0
	<hr/> 159.6

Modeling Chemistry Unit 5

Jin-Ying Zhang



Modeling Chemistry Unit 5:

Chemistry, Grades 6 - 12 Barbara R. Sandall, Ed.D.,2010-01-04 Reinforce good scientific techniques The teacher information pages provide quick overview of the lesson while student information pages include Knowledge Builders and Inquiry Investigations that can be completed individually or as a group Tips for lesson preparation materials lists strategies and alternative methods of instruction a glossary an inquiry investigation rubric and a bibliography are included Perfect for differentiated instruction Supports NSE and NCTM standards marktwainmedamath.com Chemistry in the Community

American Chemical Society,2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design **Engineering Technology and Industrial Chemistry with Applications** Reza K. Haghi,Francisco

Torrens,2018-09-24 This volume Engineering Technology and Industrial Chemistry with Applications brings together innovative research new concepts and novel developments in the application of new tools for chemical and materials engineers It provides a collection of innovative chapters on new scientific and industrial research from chemists and chemical engineers at several prestigious institutions It looks at recent significant research and reports on new methodologies and important applications in the fields of chemical engineering as well as provides coverage of chemical databases bringing together theory and practical applications Highlighting theoretical foundations real world cases and future directions this authoritative reference source will be a valuable addition for researchers practitioners professionals and students of chemistry material and chemical engineering , **Applied Chemistry and Chemical Engineering, Volume 4** A. K. Haghi,Lionello Pogliani,Eduardo A. Castro,Devrim Balköse,Omari V. Mukbaniani,Chin Hua Chia,2017-12-22

Applied Chemistry and Chemical Engineering Volume 4 Experimental Techniques and Methodical Developments provides a detailed yet easy to follow treatment of various techniques useful for characterizing the structure and properties of engineering materials This timely volume provides an overview of new methods and presents experimental research in applied chemistry using modern approaches Each chapter describes the principle of the respective method as well as the detailed procedures of experiments with examples of actual applications and then goes on to demonstrate the advantage and disadvantages of each physical technique Thus readers will be able to apply the concepts as described in the book to their own experiments The book is broken into several subsections Polymer Chemistry and Technology Computational Approaches Clinical Chemistry and Bioinformatics Special Topics This volume presents research and reviews and information on implementing and sustaining interdisciplinary studies in science technology engineering and mathematics *Theoretical Models and Experimental Approaches in Physical Chemistry* A. K. Haghi,Sabu Thomas,Praveen K.M.,Avinash R.

Pai,2018-10-01 This new volume presents an up to date review of modern materials and physical chemistry concepts issues and recent advances in the field It presents a modern theoretical and experimental approach in applied physical chemistry

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Applied Physical Chemistry with Multidisciplinary Approaches A. K. Haghi, Devrim Balköse, Sabu Thomas, 2018-05-03

Presenting illustrative case studies highlighting technological applications and explaining theoretical and foundational concepts, this book is an important reference source on the key concepts for modern technologies and optimization of new processes in physical chemistry. This volume combines up-to-date research findings and relevant theoretical frameworks on applied chemistry materials and chemical engineering. This new volume presents an up-to-date review of modern materials and chemistry concepts, issues, and recent advances in the field. Distinguished scientists and engineers from key institutions worldwide have contributed chapters that provide a deep analysis of their particular subjects. At the same time, each topic is framed within the context of a broader, more multidisciplinary approach, demonstrating its relationship and interconnectedness to other areas. The premise of this book, therefore, is to offer both a comprehensive understanding of applied science and engineering as a whole and a thorough knowledge of individual subjects. This approach appropriately conveys the basic fundamentals, state of the art, technology, and applications of the involved disciplines and further encourages scientific collaboration among researchers. This volume emphasizes the intersection of chemistry, math, physics, and the resulting applications across many disciplines of science and explores applied physical chemistry principles in specific areas, including the life chemistry, environmental sciences, geosciences, and materials sciences. The applications from these multidisciplinary fields illustrate methods that can be used to model physical processes, design new products, and find solutions to challenging problems. [Iit-Jee Main and Advanced Chemistry](#) Dr. K. G. Ojha, 2022-07-02

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