

THE MOLE: LAB ACTIVITY

Station 1:

A) Determine the mass of one drop of water by measuring the mass of 50 drops of water.

Mass of dish (or beaker)	= _____ g
Mass of dish (or beaker) + 50 drops water	= _____ g
Mass of 50 drops water	= _____ g
Mass of 1 drop of water	= _____ g

B) How many molecules are there in one drop of water?

Remember 1 mole of a substance is 6.02×10^{23} particles (atoms or molecules).
Therefore, 6.02×10^{23} molecules of water will weigh 18.02 g/mol

1. Find # of moles of water for 1 drop $n = (\text{mass})/(\text{Molar Mass})$
2. # of molecules in one drop of water $= n_{\text{water}} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mole}}$
 $= ? \text{ molecules}$

Station 2

Calculate the number of copper atoms in a penny.

1. Find # of moles of Cu $n = (\text{mass})/(\text{Molar Mass})$
2. # of Cu atoms in a penny $= n_{\text{Cu}} \times \frac{6.02 \times 10^{23} \text{ atoms}}{1 \text{ mole}}$
 $= ? \text{ atoms}$

Station 3

A. Calculate the number of moles in one spoon of sugar. Assume that sugar is made up entirely of sucrose molecules ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$).

$$M_{\text{sucrose}} = 342.34 \text{ g/mol}$$

$$n_{\text{sugar}} = \frac{M_{\text{sucrose}}}{M_{\text{sucrose}}}$$
$$= \text{_____ mol}$$

B. Calculate the number of molecules of sugar in one spoon of sugar.

$$\# \text{ of molecules sucrose} = n_{\text{sucrose}} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mol}}$$
$$= \text{_____ mol} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mole}}$$
$$= ? \text{ molecules}$$

Mole Lab Activity Answers

SJ Ball



Mole Lab Activity Answers:

CBSE Chemistry Chapterwise Case Study Class 11 Priti Singhal,2024-11-17 This book is structured to align with the latest syllabus and curriculum guidelines ensuring that the content is both relevant and rigorous Each chapter begins with a clear set of learning objectives providing a roadmap for students to understand what they will achieve by the end of the chapter We have included numerous diagrams illustrations and real life examples to make complex concepts more accessible and engaging

ChemDiscovery Lab Manual Olga I. Agapova,2002 *Regents Exams and Answers: Chemistry--Physical Setting Revised Edition* Barron's Educational Series,Albert Tarendash,2021-01-05 Barron s Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day

Stoichiometry Unit Project Luann Marie Decker,1998 *Resources for Teaching Middle School Science* Smithsonian Institution,National Academy of Engineering,National Science Resources Center of the National Academy of Sciences,Institute of Medicine,1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching

directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

Physics Guide and Lab Activities Ira Cleveland Davis,1957 *Regents Chemistry--Physical Setting Power Pack Revised Edition* Barron's Educational Series,Albert S. Tarendash,2021-01-05 Barron s two book Regents Chemistry Power Pack provides comprehensive review actual administered exams and practice questions to help students prepare for the Chemistry Regents exam This edition includes Regents Exams and Answers Chemistry Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day Let s Review Regents Chemistry Extensive review of all topics on the test Extra practice questions with answers A detailed introduction to the Regents Chemistry course and exam One actual recently released Regents Chemistry exam with an answer key *The Science Teacher* ,2005 SCC Library has 1964 cur

Chemistry in the Community. American Chemical Society,2002 This volume has relevance to a wide number of courses giving a hands on introduction to chemistry in relation to community issues rather than around specific chemical concepts Curriculum Development Library ,1980 A Stoichiometry Unit David Callaghan,2004 Prentice Hall Chemistry ,2000 *Improving Student Comprehension in Chemistry Laboratories* Tracy Lynn Haroff,2006 *The Inclusive Classroom* Margo A. Mastropieri,Thomas E. Scruggs,2007 *The Inclusive Classroom Strategies for Effective Instruction Third Edition* By Margo A Mastropieri and Thomas E Scruggs Recent Praise for *The Inclusive Classroom Strategies for Effective Instruction* Quite detailed Quite practical Everything is well linked to both research and standards Joseph E Nolan Indiana University of Pennsylvania This text is exceptional The authors have provided numerous practical examples throughout the book that are easy for inexperienced teachers to implement I believe even teachers with extensive experience would find new ideas in this textbook Karen B Clark Indiana University South Bend As you can see the real strength of *The Inclusive Classroom* is its emphasis on practical research based teaching and learning strategies in an inclusive environment The third edition focuses on the basic tools general educators need and directly relates content to the academic and professional demands of teachers in inclusive settings *Practical and Effective Teaching and Learning Strategies In the Classroom* features offer tips strategies and resources that address very specific need areas and can be practically applied to inclusive classroom situations Classroom Scenarios provide context for the specific teaching strategies featured in the text Strategy and Lesson Plan

Database CD ROM packaged with the text provides users with a searchable database of the strategies featured in the text as well as additional lesson plans for the inclusive classroom The database software also allows users to modify and adapt current strategies and lesson plans or to create new ones Research and Resources that Support Practice and Professionalism Research Highlights explain the research behind certain teaching strategies developed for use with students with special needs provide resources for further information and explanation and tie chapter content to the research with reflection questions Diversity in the Classroom features address the fact that classrooms are more diverse not only in respect to students with disabilities but also with respect to race religion and ethnicity Professional Standards including CEC INTASC and PRAXIS are listed at the end of each chapter where relevant A complete listing of standards can be found on the Companion Website

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Thomas Paul Hunt,1998 **Holt World Geography** Holt Rinehart & Winston,2007 **Laboratory Manual [for]**

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Chemistry, Student Study Guide John A. Olmsted,Gregory M. Williams,2005-02-02 100% Pure Chemical Understanding Every morning many of us are energized by a cup of coffee Imagine if you were as energized by understanding the chemistry in your morning cup from the coffee trees which fill red coffee berries with caffeine and a variety of other chemical substances to the feathery crystals formed by the caffeine molecules to the decaffeinating machines which use liquid solvents to remove this stimulant from some of the beans Now that s real chemical understanding Olmsted and Williams Fourth Edition of Chemistry focuses on helping you see and think about the world and even your coffee as a chemist This text helps you understand how chemical phenomena are governed by what happens at the molecular level apply critical thinking skills to chemical concepts and problems and master the basic mathematical techniques needed for quantitative reasoning You ll see the world as chemists do and learn to appreciate the chemical processes all around us A Fourth Edition with a lot of new perks Revisions include a new early energy chapter revised coverage of bonding expanded coverage of intermolecular forces and increased coverage of multiple equilibria including polyprotic acids New pedagogy strengthens students critical thinking and problem solving skills Visual Summaries at the end of each chapter use molecular and diagrammatic visual elements to summarize essential skills concepts equations and terms eGrade Plus provides an integrated suite of teaching and learning resources including a complete online version of the text links between problems and relevant sections in the online text practice quizzes the Visual Tutor Interactive LearningWare problems and lab demos as well as homework management and presentation features for instructors

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