

UNDERSTANDING THE MOLE AND AVOGADRO'S NUMBER

Name _____	Section _____	Date _____
Understanding the Mole and Avogadro's Number Lab		
One mole of anything is a very large number of things. It is difficult to understand just how large a mole is. This lab serves as a way to understand how truly large a mole of things is.		
Your teacher will give you one or more small items and pick one or more places. Your goals for this lab are:		
1. Calculate the volume of the item or items that your teacher gives you. You may measure the volume of one item or measure the volume of several of the items using a technique like water displacement and then calculate the volume of a single item through mathematics. 2. Calculate the volume of one mole of that item. 3. Calculate the volume of the place or places that your teacher gives you. 4. Compare the volume of one mole of the item to the volume of the place. Which one is larger? If the volume of the place is larger, one mole of the item will fit. If the volume of one mole of the item is larger, then one mole of the item will not fit in the place.		
For example: you may be given an eraser as your object and your classroom as a place.		
For one mole, use Avogadro's number: _____		

Name _____
Calculations and the Mole
• Item ____ is a _____ • The volume of this item is _____ • The volume of one mole of this item is _____ • Place ____ is the _____ • The volume of this place is _____
• Will one mole of item 1 fit in this place? Circle one Yes No • If no, how many of this place will be needed to hold one mole of the item? _____

A CHEMISTRY LAB
10 PROBLEMS
3 VERSIONS
WORKED ANSWER KEY

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O García



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changes in the treatment of all subject areas Extensive energy parameters have been added to the text along with a thorough discussion of non renewable and renewable energy supplies and their potential impact on the environment In addition thought provoking questions have been added at the end of each chapter Finally pictorial presentation has been enhanced by the addition of numerous photographs Organization and Content Environmental Science and Technology Concepts and Applications is divided into five parts and twenty five chapters and organized to provide an even and logical flow of concepts It provides the student with a clear and thoughtful picture of this complex field Part I provides the foundation for the underlying theme of this book the connections between environmental science and technology Part II develops the air quality principles basic to an understanding of air quality Part III focuses on water quality and the characteristics of water and water bodies water sciences water pollution and water wastewater treatment Part IV deals with soil science and emphasizes soil as a natural resource highlighting the many interactions between soil and other components of the ecosystem Part V is devoted to showing how decisions regarding handling solid and hazardous waste have or can have profound impact on the environment and the three media discussed in this text air water and soil Finally the epilogue looks at the state of the environment past present and future The emphasis in this brief unit is on mitigating present and future environmental concerns by incorporating technology into the remediation process not by blaming technology for the problem

Energy Research Abstracts ,1992-05 Environmental Science Frank R. Spellman,Melissa L. Stoudt,2013-02-14 Environmental Science Principles and Practices provides the scientific principles concepts applications and methodologies required to understand the interrelationships of the natural world identify and analyze environmental problems both natural and manmade evaluate the relative risks associated with these problems and examine alternative solutions such as renewable energy sources for resolving and even preventing them Frank R Spellman and Melissa Stoudt introduce the science of the environmental mediums of air water soil and biota to undergraduate students Interdisciplinary by nature environmental science embraces a wide array of topics Environmental Science Principles and Practices brings these topics together under several major themes including How energy conversions underlie all ecological processesHow the earth s environment functions as an integrated systemHow human activities alter natural systemsHow the role of culture social and economic factors is vital to the development of solutionsHow human survival depends on practical ideas of stewardship and sustainability Environmental Science Principles and Practices is an ideal resource for students of science in the classroom and at home in the library and the lab

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