

# 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: \_\_\_\_\_

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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

# Answer Key To Understanding The Mole Lab

**R Barnett**



## **Answer Key To Understanding The Mole Lab:**

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**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

**The Extraordinary Chemistry of Ordinary Things, Study Guide** Carl H. Snyder,David F. Dever,1995-01-19 Examines the chemistry of the substances of our everyday world Our daily lives are immersed in chemicals an effective way to teach and learn chemistry is by examining the goods and substances that we use in our daily lives and that affect us and our environment

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