

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

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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

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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

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Energy Research Abstracts ,1992-05 **Environmental Science**

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