

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

Xiang Xie



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Fundamentals of Environmental Sampling and Analysis Chunlong Zhang,2007-02-26 An integrated approach to understanding the principles of sampling chemical analysis and instrumentation This unique reference focuses on the overall framework and why various methodologies are used in environmental sampling and analysis An understanding of the underlying theories and principles empowers environmental professionals to select and adapt the proper sampling and analytical protocols for specific contaminants as well as for specific project applications Covering both field sampling and laboratory analysis Fundamentals of Environmental Sampling and Analysis includes A review of the basic analytical and organic chemistry statistics hydrogeology and environmental regulations relevant to sampling and analysis An overview of the fundamentals of environmental sampling design sampling techniques and quality assurance quality control QA QC essential to acquire quality environmental data A detailed discussion of the theories of absorption spectroscopy for qualitative and quantitative environmental analysis metal analysis using various atomic absorption and emission spectrometric methods and the instrumental principles of common chromatographic and electrochemical methods An introduction to advanced analytical techniques including various hyphenated mass spectrometries and nuclear magnetic resonance spectroscopy With real life case studies that illustrate the principles plus problems and questions at the end of each chapter to solidify understanding this is a practical hands on reference for practitioners and a great textbook for upper level undergraduates and graduate students in environmental science and engineering

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Environmental Science and Technology Frank R. Spellman,2017-09-15 The third edition of Environmental Science and Technology Concepts and Applications is the first update since 2006 Designed for the student and the professional this newly updated reference uses scientific laws principles models and concepts to provide a basic foundation for understanding and evaluating the impact that chemicals and technology have on the environment Building upon the success of previous editions this fully revised edition has been expanded and completely updated with significant changes in the treatment of all

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Energy Research Abstracts, 1992-05 *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 *Environmental Science* Frank R. Spellman, Melissa L. Stoudt, 2013-02-14

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