

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 ($\text{C}_{12}\text{H}_{22}\text{O}_{11}$).

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

$$n_{\text{sugar}} = \frac{M_{\text{sucrose}}}{M_{\text{sucrose}}}$$
$$= \underline{\hspace{2cm}} \text{ mol}$$

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

$$\begin{aligned} \# \text{ of molecules sucrose} &= n_{\text{sucrose}} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mol}} \\ &= \underline{\hspace{2cm}} \text{ mol} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1 \text{ mole}} \\ &= ? \text{ molecules} \end{aligned}$$

Estimating The Size Of A Mole Lab Answers

JL Elias



Estimating The Size Of A Mole Lab Answers:

Report of Research CSIRO (Australia). Division of Food Research,1983 Chemistry McGraw-Hill Staff,2001-07

Potter's Pathology of the Fetus and Infant E-Book Enid Gilbert-Barnes,Raj P. Kapur,Luc Laurier Oigny,Joseph R. Siebert,2007-05-01 This comprehensive reference addresses all aspects of fetal and neonatal pathology including complicated pregnancies multiple pregnancies abortion placental pathology and disorders affecting the full term neonate A consistent organization allows for quick access to specific guidance and nearly 2 500 illustrations 2 350 in full color depict conditions and abnormalities as they present in practice facilitating diagnosis An Image Bank on CD ROM new to this edition features all of the illustrations from the 2 volume set downloadable for presentations Offers comprehensive coverage of all common and rare embryonic fetal and infant disorders in one source Correlates clinical pathologic and genetic findings for each systemic disease Emphasizes the genetic and molecular basis of birth defects Features nearly 2 500 illustrations 2 350 in full color which depict each abnormality or condition as they present in practice Presents practical information on autopsy techniques and protocols Provides the latest guidance on molecular pathology immunohistochemistry DNA technology and more Offers an expanded discussion of developmental biology related to the pathogenesis of birth defects Features user friendly summary tables and diagnostic flow charts making information quick and easy to find Includes a CD ROM featuring all of the illustrations from the 2 volume set **Scientific and Technical Aerospace Reports** ,1974 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database Diagnostic Gynecologic and Obstetric Pathology Roger A. Reichert,2012-01-19 In covering the topic of gynecologic and obstetric pathology this book attempts to carve out its own niche midway between an atlas and a traditional textbook The gross and microscopic images in this atlas are presented exclusively in color and are supplemented by pertinent clinical information and discussions of differential diagnostic considerations When deemed appropriate images of immunohistochemical and special stains are included To further enhance their visual appeal and the overall learning experience many images in this book are presented with annotations and or in composite form and selected images have been enlarged This image intensive textbook also includes numerous Pap smear images and cytologic histologic correlations In addition to coverage of pathology of the organs of the female genital tract brief overviews of the normal histology of these sites are provided as necessary background information Separate chapters are also devoted to placental and peritoneal pathology There is an emphasis on diagnostic related issues pertaining to common lesions and their variants although classic forms of rare lesions are also presented In selected instances recommendations on the processing of gross pathology specimens discussions regarding the optimal approach for intraoperative consultations and recommendations on the phrasing of key portions of pathology reports are provided The 10 chapters of this book are organized by site and the beginning of each chapter lists the entities discussed and their

corresponding page numbers **Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998
 Pp/Chemistry BarCharts, Inc., 2008-06-18 *Research & Development* , 1988 **Air Force Research Resumés** , 1961
 Nuclear Science Abstracts , 1971 **Mathematics** GLENCOE, 1995 *Basic Research Resumés* , 1961 **An**
Introductory Guide to EC Competition Law and Practice Valentine Korah, 1994 *English Mechanic and Mirror of*
Science , 1916 **Government Reports Announcements & Index** , 1984 **Toxicology Research Projects Directory**
, 1979 An indexed directory of current research project abstracts in toxicology and related fields **Potter's Pathology of**
the Fetus, Infant, and Child Edith Louise Potter, 2007 This comprehensive reference addresses all aspects of fetal and
neonatal pathology including complicated pregnancies multiple pregnancies abortion placental pathology and disorders
affecting the full term neonate A consistent organization allows for quick access to specific guidance and nearly 2 500
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pathogenesis of birth defects Features user friendly summary tables and diagnostic flow charts making information quick and
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Buchanan, 1976 **Environment Abstracts** , 1979 This database encompasses all aspects of the impact of people and
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