

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.

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

Mole Bean Lab Answers Key

Ying-Ying Zheng



Mole Bean Lab Answers Key:

Dr. Fry's Word Sorts: Working with Onsets and Rimes Edward Fry, 2003-08-08 Bridge the gap between phonemic awareness and beginning phonics Pre readers and beginning readers practice letter and phoneme recognition by cutting out word or picture cards and sorting them according to each lesson s focus Activities require very little reading ability

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 only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

Pathology and Genetics of Tumours of the Breast and Female Genital Organs World Health Organization, International Agency for Research on Cancer, 2003 This is the 5th volume in a WHO series on histological and

genetic typing of human tumours This edition focuses on cancers of the breast and female genital organs and describes diagnostic criteria pathological features associated genetic alterations and gene expression patterns in a disease oriented manner Sections on all recognised neoplasms and their variants include new ICD O codes incidence age and sex distribution location clinical signs and symptoms pathology genetics and predictive factors It contains colour photographs X rays computed tomography CT and magnetic resonance MR images charts and over 3 200 references The classifications presented reflect the views of WHO working group conferences held in France in January and March 2002 and the volume was produced in collaboration with the International Academy of Pathology **Phonics Book 2** Kathy Dickerson Crane,2004-03-23 This three book series helps students develop reading skills Students review and practice phonemic awareness and alphabet recognition skills and work their way through more advanced phonics concepts including blends digraphs synonyms and antonyms Suitable for ELL and intervention programs Cumulated Index Medicus ,1994

Women in Gynecological Oncology Vol III: 2023 Priya Ranjit Bhosale, Marcia Hall, 2024-09-18 We are delighted to present the Frontiers in Oncology Women in Gynecological Oncology Volume III series of article collections At present less than 30% of researchers worldwide are women Long standing biases and gender stereotypes are discouraging girls and women away from science related fields and STEM research in particular Science and gender equality are however essential to ensure sustainable development as highlighted by UNESCO In order to change traditional mindsets gender equality must be promoted stereotypes defeated and girls and women should be encouraged to pursue STEM careers Therefore Frontiers in Oncology is proud to offer this platform to promote the work of women scientists across all fields of Oncology The work presented here highlights the diversity of research performed across the entire breadth of Oncology research and presents advances in theory experiment and methodology with applications to compelling problems **Scientific and Technical Aerospace Reports** ,1985 Energy Research Abstracts ,1986 **Comfort** ,1914 **General Chemistry** James E. Brady, Gerard E. Humiston, 1982 The Fifth Edition retains the pedagogical strengths that made the previous editions so popular and has been updated reorganized and streamlined Changes include more accessible introductory chapters with greater stress on the logic of the periodic table earlier introduction of redox reactions greater emphasis on the concept of energy a new section on Lewis structures earlier introduction of the ideal gas law and a new development of thermodynamics Each chapter ends with review questions and problems **Toxicology Research Projects Directory** ,1978 An indexed directory of current research project abstracts in toxicology and related fields **Physics Briefs** ,1991 **Media Review Digest** ,1975 **Learning and Leading with Technology** ,2001 Genetics Abstracts ,1991 **Annual Report 1989-90** New Brunswick. Department of Transportation, 1991 General activity review of associated branches and agencies to the Department which includes corporate securities registrations a list of tenders received and general financial data Branches and agencies reviewed are responsible for motor vehicle activity highway construction traffic engineering

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