



### eScience Lab 3, Experiment 1

This assignment helps you apply your knowledge from this week's modules and readings.



Completion of the eScience labs provides hands on experience with the emulsion technique.

20



### Lab 3, Experiment 1

Directions to complete Experiment 1:

- 1) Read and complete each procedure step for Lab 3, Experiment 1 Compounding and Packaging a Powder found in your eScience Lab Manual and record in "Table 1: Powder Mass" record the Total Powder Mass (g) and Total Mass / 5 (g).
- 2) Record the observations notes you recorded in Table 1 in your manual to the table below.
- 3) Answer the four (4) post lab questions.

Table 1: Powder Mass



Total Powder Mass (g)	Total Mass / 5 (g)
20.4 g	4.08 g

1. Why is it important to blend the powders using the "doubling" technique, rather than simply blending all of the powdered ingredients together at the same time?

It is important to blend the powders using the "doubling technique because it makes a homogenous mixture.

2. Why do all of the tablets need to be triturated separately?

The tablets need to be triturated separately because you need to know just how many grams per instance of the medication and how strong to make the medication.

3. What purpose does the sieve serve after trituration?

The sieve removes any chunks, so the final product is purely powder.

4. What kind of mortar and pestle is most ideal for this type of procedure; glass, porcelain, or Wedgwood?

Why do you think this is so?

Porcelain, it has the best surface and made crushing the smarties really easy. You are also not supposed to use wood for triturating tablets.

# Escience Lab Manual Answers

**Mr. Rohit Manglik**



## Esience Lab Manual Answers:

E-science i Tm (science and Technology)' 2003 Ed. , China's e-Science Blue Book 2018 Chinese Academy of Sciences,Cyberspace Administration of China,Ministry of Education,Ministry of Science and Technology,Chinese Academy of Social Sciences,National Natural Science Foundation,Chinese Academy of Agricultural Sciences,2019-11-19 This book is jointly compiled by Chinese Academy of Sciences Cyberspace Administration of China Ministry of Education of the People s Republic of China Ministry of Science and Technology of the People s Republic of China Chinese Academy of Social Sciences National Natural Science Foundation of China and Chinese Academy of Agricultural Sciences Over the past several years Chinese scholars have contributed numerous research works on the development of Chinese scientific information and technology and produced a range of outstanding achievements Focusing on the main topic of e Science this book explores the forefront of science and technology around the globe the major demands in China and the main fields in China s economic development Furthermore it reviews the major achievements and the typical cases in China s e Science research It provides a valuable reference source for future technological innovations and will introduce researchers and students in the area of e Science to the latest results in China *Books and Pamphlets, Including Serials and Contributions to Periodicals* Library of Congress. Copyright Office,1968 **The United States Catalog** ,1921 *The United States Catalog* Eleanor E. Hawkins,1921 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1968 **The United States Catalog Supplement, January 1918-June 1921** Eleanor E. Hawkins,1921 Access to Scientific Research David J. Brown,2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future The United States Catalog; Books in Print January 1, 1912 Marion Effie Potter,1921 **The United States Catalog** ,1928 **Subject Guide to Books in Print** ,1997 **Physical Science Lab Manual Answer Key** ,2006-02-23 Help students explore and understand the world around them With the full color Physical Science text students learn the properties of matter elements compounds electricity and sound and light Students reading significantly below grade level gain practice in working with data and sharpen their abilities to infer classify and theorize Lexile Level 840 Reading Level 3 4 Interest Level 6 12 Good Laboratory Practices - 1 Mr. Rohit Manglik,2024-03-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels **Subject Guide to Children's Books in Print 1997** Bowker

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