

Standards of Measurement Lab

Introduction

The goal of this activity is to gain practice making measurements and conversions using the International System of Units (SI units). In addition, you will become more familiar with some of the lab equipment you will be using throughout the semester. The following chart, Table 2 from page 15 of your textbook, will be extremely helpful to you in this lab.

Prefix	Symbol	Multiplying Factor
Kilo-	k	1,000
Base		1
Deci-	d	0.1
Centi-	c	0.01
Milli-	m	0.001

Materials

All materials are already set up around the room in stations. Here is a list of the materials you will be using today:

- 100mL beaker
- Triple beam balance
- Meter stick
- 100 mL graduated cylinder
- Stopwatch
- Science textbook
- Ruler

Procedure

In groups, you will travel from station to station and make the following measurements and conversions:

Station 1 - Mass

- Use the triple beam balance to determine the mass of an empty 100mL beaker
- Convert your answer to kilograms
- Convert your answer to milligrams

(Report your measurements and conversions in the "Data" section)

Station 2 - Distance

- Measure the height in centimeters of one of your group members using the meter stick
- Convert your answer to meters
- Convert your answer to decimeters

(Report your measurements and conversions in the "Data" section)

Station 3 – Liquid Volume

- Determine the amount of water in the graduated cylinder to the nearest milliliter
- Convert your answer to liters
- Convert your answer to centiliters

(Report your measurements and conversions in the "Data" section)

Sample Measurement Standards Manual

**John Ward Studebaker, Frederic
Butterfield Knight, William Copley
Findley**

Sample Measurement Standards Manual:

National Bureau of Standards Handbook ,1963 **Sampling Manual for Environmental Measurement Projects**
,1994 **The Code of Federal Regulations of the United States of America** ,2007 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Code of Federal Regulations ,2007 Special edition of the Federal Register containing a codification of documents of general applicability and future effect with ancillaries **International Environmental Standards Handbook** Scott S. Olson,2020-02-10 Lack of knowledge about and noncompliance with international standards can result in loss of sales and partnership opportunities as well as possible legal action The International Environmental Standards Handbook provides the necessary historical background to understand the current status of international environmental standards It contains copies of available treaties and provides coverage of laws and standards The book offers strategies for designing and implementing environmental systems that will be internationally accepted It includes a list of information sources and a directory of international environmental organizations **National Bureau of Standards Handbook** United States. National Bureau of Standards,1963 Federal Register ,1992-12-08 Manual of Instructions for Giving and Scoring the Courtis Standard Tests in the Three R's Stuart Appleton Courtis,1914 **Fuels and Lubricants Handbook** , **Annual Book of ASTM Standards** ASTM International,American Society for Testing and Materials,2003
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