

Laboratory Skills 2

Identifying Laboratory Equipment

Introduction

Scientists use a variety of tools to explore the world around them. Tools are very important in the advancement of science. The type of tools scientists use depends on the problems they are trying to solve. A scientist may use something as simple as a metric ruler to measure the length of a leaf. At another time, the same scientist may use a complex computer to analyze large amounts of data concerning hundreds of leaves.

In this investigation, you will identify pieces of laboratory equipment likely to be found in a biology laboratory. You will also learn the function of each piece of laboratory equipment.

Problem

What are the names and functions of some of the pieces of laboratory equipment found in a typical biology laboratory?

Pre-Lab Discussion

Read the entire investigation. Then, work with a partner to answer the following questions.

1. What kinds of measurements might you need to make in the laboratory?

2. What kinds of equipment would you need for these tasks?

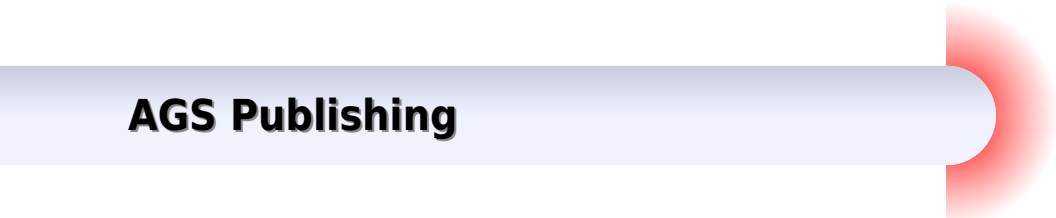
3. Why are there several types of glassware marked for measuring?

4. How might glassware be used differently?

5. When might you need to use a thermometer in the lab?

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Laboratory Manual of Biology George William Hunter, Morris Crawford Valentine, 1906 *Thinking about Biology* Mimi Bres, Arnold Weisshaar, 1997-12 This self guided introductory biology lab manual features a full range of activities that show how basic biological concepts can be applied to a wide variety of plants animals and microorganisms It is designed to help readers including those who are academically underprepared acquire the basic knowledge needed to make informed decisions about biological questions that arise in everyday life develop the problem solving skills that will lead to success in a competitive job market and learn to work effectively and productively as a member of a team Focuses on the scientific method requiring readers to develop hypotheses set up experiments collect data record their data in graphs and charts and draw conclusions from their experimental results Offers opportunities to transfer content knowledge to real life applications through questions interwoven into each activity Each laboratory includes a brief discussion of background information hints for solving problems important safety information Comprehension Checks and Self Tests with answers For anyone beginning a study of biology including those who are academically underprepared or from an ESL background Biology Peter H. Raven, 1999 2000 2005 State Textbook Adoption Rowan Salisbury Visualizing Human Biology Kathleen A. Ireland, 2017-12-19 Visualizing Human Biology is a visual exploration of the major concepts of biology using the human body as the context Students are engaged in scientific exploration and critical thinking in this product specially designed for non science majors Topics covered include an overview of human anatomy and physiology nutrition immunity and disease cancer biology and genetics The aim of Visualizing Human Biology is a greater understanding appreciation and working knowledge of biology as well as an enhanced ability to make healthy choices and informed healthcare decisions The Texas Outlook, 1916 *Human Biology* Sylvia S. Mader, 2000 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis **Solutions Manual for An Introduction to Genetic Analysis** David Scott, 2012 Since its inception Introduction to Genetic Analysis IGA has been known for its prominent authorship including

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