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## *The Metric System and Angular Measurement*

Science and technology have had great success because of their quantitative approach. The basis of most scientific research is an assumption of cause and effect. Researchers try to describe quantitatively what conditions and observations are expected from a particular experiment. The researchers then perform the experiment and measure anything that has changed in order to try and understand the cause and effect relationship. This often results in the discovery of physical laws. A crucial aspect of this process is measurement. To better understand the nature of the work of the scientist, it is necessary to be familiar with the elementary operations of measurements. In this investigation work will be done with measurements involving physical properties and angles.

### I. The Metric System

To test the laws of science in everyday aspects of our lives, it is important to be able to measure many different quantities. Lord Kelvin, a 19th century English scientist, summed up the importance of measurement to science in the following way:

"I often say that when you can measure what you are speaking about, and express it in numbers, you know something about it, but when you cannot express it in numbers, your knowledge is of a meager and unsatisfactory kind; it may be the beginning of knowledge, but you have scarcely, in your thoughts, advanced to the stage of Science, whatever the matter may be."

If you think about your own experience in buying, selling, repairing, building, etc., the necessity and importance of measurement is obvious. The nature of measurement requires comparisons to previously determined standards. Generally the role of establishing and maintaining standards of measurement is the responsibility of governments. Historically, different societies and their governments have chosen standards that were relevant to them and their needs. For example, in the United States we have continued to use a system

of measurement that evolved from our English heritage called the *English system* of measurement. Thus for each society there can be a different standard measurement. In the 18th century great dissatisfaction was aroused in parts of Europe over the lack of a single universal standard of precise measurement. This was further aggravated by the Age of Exploration and the establishment of colonies in many parts of the world. The dissatisfaction eventually led to the adoption of a logical and relatively simple system of measurement known as the *metric system*, which derives its name from the unit of length called the *meter*. The metric system is now commonly used in every country with the exception of a few undeveloped countries and the United States, which is evaluating the advantages of converting to widespread use of the metric system. The metric system originated from the deliberations of the French National Assembly during the period 1791-1795, and became compulsory in France in 1837. Although the metric system is legally recognized in the United States, it has not been officially adopted. Because of the far reaching economic implications of conversion and the general hesitancy of public acceptance of the metric system, widespread conversion from the English system to the metric system in the United States has been delayed. The necessity to deal with imported metric products, however, encourages an ability to work with the metric system even if we continue to accept English system measurements in the United States.

The minimum quantities required to make all necessary measurements are referred to as the *fundamental units of measure*. The quantities that are combinations of the fundamental units of measure are called the *derived units of measure*. By international agreement seven fundamental units of measure have been adopted; they are length, mass, time, temperature, electrical current, light intensity, and the amount of molecular matter.

# Astronomy Through Practical Investigations Lab Answers

**Charles Leander Doolittle**



## **Astronomy Through Practical Investigations Lab Answers:**

**Teaching and Learning Astronomy** Jay Pasachoff, John Percy, 2005-12-15 Astronomy is taught in schools worldwide but few schoolteachers have any background in astronomy or astronomy teaching and available resources may be insufficient or non-existent. This volume highlights the many places for astronomy in the curriculum, relevant education research and best practice strategies for pre-service and in-service teacher education, the use of the Internet and other technologies and the role that planetariums, observatories, science centres and organisations of professional and amateur astronomers can play. The special needs of developing countries and other under-resourced areas are also highlighted. The book concludes by addressing how the teaching and learning of astronomy can be improved worldwide. This valuable overview is based on papers and posters presented by experts at a Special Session of the International Astronomical Union. **New and Revised**

**Astronomy Education Materials Resource Guide** Dennis W. Sunal, 1982 **A Treatise on Practical Astronomy** Charles Leander Doolittle, 1885 **American Journal of Physics**, 1983 Annual Register University of Chicago, 1897

*The Science Teacher*, 1996 Some issues are accompanied by a CD-ROM on a selected topic. **Report of the Commissioner of Education [with Accompanying Papers]**. United States. Bureau of Education, 1899 Annual Register University of Chicago, 1917 **Report of the Commissioner of Education Made to the Secretary of the Interior for**

**the Year ... with Accompanying Papers** United States. Bureau of Education, 1899 **Report of the Federal Security Agency** United States. Office of Education, 1899 *Annual Report* United States. Office of Education, 1899 Mapping the Spectrum Klaus Hentschel, 2002 Ever since the boom of spectrum analysis in the 1860s, spectroscopy has become one of the most fruitful research technologies in analytic chemistry, physics, astronomy and other sciences. This book is the first in-depth study of the ways in which various types of spectra, especially the sun's Fraunhofer lines, have been recorded, displayed and interpreted. The book assesses the virtues and pitfalls of various types of depictions, including hand sketches, woodcuts, engravings, lithographs and from the late 1870s onwards, photomechanical reproductions. The material of a 19th-century engraver or lithographer, the daily research practice of a spectroscopist in the laboratory or a student's use of spectrum posters in the classroom, all are looked at and documented here. For pioneers of photography such as John Herschel or Hermann Wilhelm Vogel, the spectrum even served as a prime test object for gauging the color sensitivity of their processes. This is a broad contextual portrayal of the visual culture of spectroscopy in the 19th and early 20th centuries. The illustrations are not confined to spectra; they show instruments, laboratories, people at work and plates of printing manuals. The result is a multifaceted description focusing on the period from Fraunhofer up to the beginning of Bohr's quantum theory. A great deal of new and fascinating material from two dozen archives has been included. A must for anyone interested in the history of modern science or in research practice using visual representations. **The Lancet**, 1882 Scientific and Technical Aerospace Reports, 1994 Annual Report Ohio State University, 1876 **Annual Report of the Board of Trustees**

,1878 First report 1870 72 contains also a full transcript of the Journal of proceedings of the board House documents  
,1889 Report of the Commissioner of Education ,1889 *Exploring Biology in the Laboratory: Core Concepts* Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today *Space Station: Key to the Future* United States. National Aeronautics and Space Administration. Office of Public Affairs, 1970

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