

← Experiment 3 - Simple P...

Experiment # 3

Date:

Topic: Simple Pendulum

Aim: Determine gravitational acceleration, g .

Apparatus:

Meter rule, protractor, pendulum, stopwatch, retort stand

Theory: What is a simple pendulum, oscillation, period, frequency.

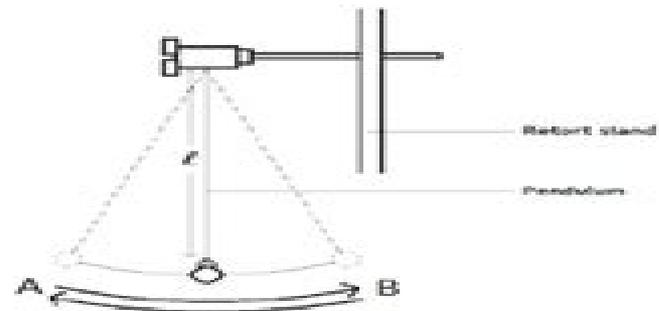
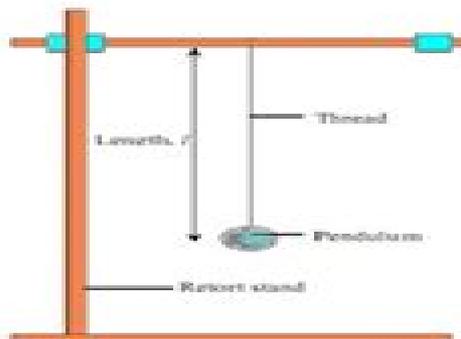
Variable

Manipulating variable

Responding variable

Controlled variable

Diagram:



Procedure:

1. set the length of the pendulum to 80 cm.
2. Swing the pendulum by releasing it from rest with a small amplitude. Ensure that it swings in one plane. Record the time, t_1 , for 20 oscillations.
3. Repeat to obtain a value of t_2 for 80 cm.
4. Vary the length of the pendulum to obtain a total of six sets of readings. Ensure that the lengths spread over the range of $l = 10$ cm and 80 cm.
5. Record all values in a table
6. Plot a graph of T^2 versus l .

Lab Report Investigating A Simple Pendulum

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Physics Laboratory Experiments Jerry D. Wilson,1994 **Sixteen Experimental Investigations from the Harvard Psychological Laboratory** Harvard Psychological Laboratory,1903 The Science IA Daniel Slosberg,2016-02-17
Interim Report on an Investigation of Industrial Fatigue by Physiological Methods Albert Frank Stanley Kent,1915
Getting to Good Arthur L. Caplan,Barbara K. Redman,2018-07-23 This book represents the first comprehensive gold standard reader on research integrity in the biomedical sciences Now more than ever the responsible conduct of research RCR has become critically important as new technologies affect research practices in both positive and negative ways Since learning to do science and practicing it brings researchers into contact with a vast array of ethical issues it is critical to know the standards and how they are evolving Indeed research integrity requires scientists at all levels to operate ethically in a system that supports ethical practice This unique foundational text covers all the relevant areas subject protection research misconduct and conflict of interest as well as newly quantified concerns about research bias and non reproducibility as well as other unique issues Developed by renowned experts this compelling title discusses the full range of practices and policies that should support research that is honestly produced and disseminated It also specifically incorporates topics noted by the National Institutes of Health as essential and required for training in RCR Getting to Good Research Integrity in the Biomedical Sciences is a major contribution to the literature on bioethics and will serve as an invaluable resource for all researchers students administrators and professionals interested in research ethics and integrity **Science Teaching** Michael R. Matthews,2014-09-19 Science Teaching explains how history and philosophy of science contributes to the resolution of persistent theoretical curricular and pedagogical issues in science education It shows why it is essential for science teachers to know and appreciate the history and philosophy of the subject they teach and how this knowledge can enrich science instruction and enthuse students in the subject Through its historical perspective the book reveals to students teachers and researchers the foundations of scientific knowledge and its connection to philosophy metaphysics mathematics and broader social influences including the European Enlightenment and develops detailed arguments about constructivism worldviews and science multicultural science education inquiry teaching values and teacher education Fully updated and expanded the 20th Anniversary Edition of this classic text featuring four new chapters The Enlightenment Tradition Joseph Priestley and Photosynthesis Science Worldviews and Education and Nature of Science Research and 1 300 references provides a solid foundation for teaching and learning in the field *Laboratory Experiments in College Physics* Cicero Henry Bernard,Chirold D. Epp,1980 **Report** National Physical Laboratory (Great Britain). Metrology Centre,1929 *An Experimental Investigation of the Book Method, Lecture Method and Experiment Method of Teaching Elementary Science in Elementary Schools* Jacob Edward Mayman,1912 **An Introduction to Physical Science** Ivor Blashka Hart,1925
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Meeting of the British Association for the Advancement of Science British Association for the Advancement of Science. Meeting,1918 **Criminal Investigation. A Practical Handbook ...** Hans Gross,1907 **Laboratory Experiments in College Physics** C. Henry Bernard,Cicero Henry Bernard,1972 **Report of the ... Meeting of the British Association for the Advancement of Science** British Association for the Advancement of Science,1918 *The Engineer* ,1908 **The Electrical Journal** ,1914 *Report of the British Association for the Advancement of Science* British Association for the Advancement of Science. Meeting,1918 Journal of the Optical Society of America and Review of Scientific Instruments ,1923

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