



Pendulum Lab Report 3(Final Rough Copy 1)

Introduction:

Pendulums are freely swinging weights hanging from tension carrying mediums fixed at a pivot. Although they modeled using simple harmonic motion to simplify calculations, real world pendulums' case in the real world. Certain quantities such as the period, time-constant, and Q-factor are simplified or omitted from the model.

The first purpose of this lab is to better model the simple harmonic by adding a factor of decay. The quantities used to describe this decay were calculated and estimated from data collected from a variety of data and used to describe the properties of the pendulum. The results were then used to find dependence between certain quantities and verify predicted theories.

The conclusions found from this lab are as follows. The period is found to be mostly constant within a certain range of initial angles of release. The decaying motion of a pendulum with a fixed length was found to be best modeled with an exponentially decaying sinusoidal graph, from which a Q-factor was calculated. This Q-factor, which determines the rate at which the pendulum's amplitude decays, was found to have an intrinsic dependence on the length of the pendulum.

Section 1 (Theory):

The motion of the a pendulum undergoing simple harmonic motion is predicted to be:

Lab Report Investigating A Simple Pendulum

Guillaume Favre



Lab Report Investigating A Simple Pendulum:

America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished

Physics Laboratory - I Mr. Rohit Manglik, 2024-04-06 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

Physics Laboratory Experiments Jerry D. Wilson, 1994 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

Physics for the IB Diploma Second Edition John Allum, 2015-03-20 Provide clear guidance to the 2014 changes and ensure in depth study with accessible content directly mapped to the new syllabus and approach to learning This bestselling textbook contains all SL and HL content which is clearly identified throughout Options are available free online along with appendices and data and statistics Improve exam performance with exam style questions including from past papers Integrate Theory of Knowledge into your lessons and provide opportunities for cross curriculum study Stretch more able students with extension activities The shift to concept based approach to learning Nature of Science is covered by providing a framework for the course with points for discussion Key skills and experiments included Full digital package offered in a variety of formats so that you can deliver the course just how you like *Physics Extension File* Jim Breithaupt, 2002 This physics extension file includes teaching notes guidance on coursework activities and equipment It has at least one assignment for each topic in the textbooks suitable for classwork and homework A comprehensive range of practical activities are included It contains extensive Key Skills and ICT materials An exam file resource containing a complete set of exam style questions in a format that can be used throughout Years 10 and 11 or as a resource for a revision programme is included Sixteen Experimental Investigations from the Harvard Psychological Laboratory Harvard Psychological Laboratory, 1903

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 Heinemann Physics for CXC Norman Lambert, Natasha Lewis dos Santos, Tricia A. Samuel, 2000 Heinemann Physics for CXC is a lively accessible textbook written by Norman Lambert the well respected author and teacher and experienced teachers Natasha Lewis dos Santos and Tricia A Samuel The authors have drawn on their many years of teaching

Interim Report on an Investigation of Industrial Fatigue by Physiological Methods Albert Frank Stanley Kent, 1915 *e-N-Level Science Physics Learning Through Diagrams* S.H. Chan, 2009-08-19 You will find this book interesting Physics concepts presented in a diagrammatic form Specially written to ease learning and to stimulate interest in Physics this book will help students in acquiring and reinforcing Physics concepts and especially the difficult ones more easily and effectively This book makes

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Learning Michael E. Auer,David Guralnick,James Uhomoibhi,2017-01-07 This book presents the proceedings of the 19th International Conference on Interactive Collaborative Learning held 21 23 September 2016 at Clayton Hotel in Belfast UK We are currently witnessing a significant transformation in the development of education The impact of globalisation on all areas of human life the exponential acceleration of developments in both technology and the global markets and the growing need for flexibility and agility are essential and challenging elements of this process that have to be addressed in general but especially in the context of engineering education To face these topical and very real challenges higher education is called upon to find innovative responses Since being founded in 1998 this conference has consistently been devoted to finding new approaches to learning with a focus on collaborative learning Today the ICL conferences have established themselves as a vital forum for the exchange of information on key trends and findings and of practical lessons learned while developing and testing elements of new technologies and pedagogies in learning *The Science IA* Daniel Slosberg,2016-02-17 **e-Lower**

Secondary Science Learning Through Diagrams S.H. Chan,A.B. Terence,Cheng Chung Yu,2012-03-13 You will find this book interesting Science concepts presented in a diagrammatic form Specially written to ease learning and to stimulate interest in Science this book will help students in acquiring and reinforcing Science concepts and especially the difficult ones more easily and effectively This book makes learning easier through the following features Learning Outcomes Learning outcomes on the header point out the concepts that you should focus on in the process of learning Important Concepts and Key Terms The important concepts and key terms are presented clearly in simple language Further explanations linked to the diagrams help you better understand the concepts Interesting Visuals Visual aids such as concept maps flow charts and annotated diagrams are integrated to make the concepts easier to understand and remember Real life Examples These examples show real life application of concepts and explain the inquiries on the phenomena that happen in our everyday lives Worked Examples Step by step worked examples help to reinforce your skills in solving problems Instant Facts These are extra information that can help you acquire a more in depth understanding of the topic under discussion This book

complements the school curriculum and will certainly help in your preparation for the examinations *Government Reports Announcements & Index* ,1988 **Scientific and Technical Aerospace Reports** ,1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *An Introduction to Physical Science* Ivor Blashka Hart,1925
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