

## Intermediate Physics Lab 4: A Higher-Order Mathematical Description of the Simple Pendulum, Comparing Data and Modeling

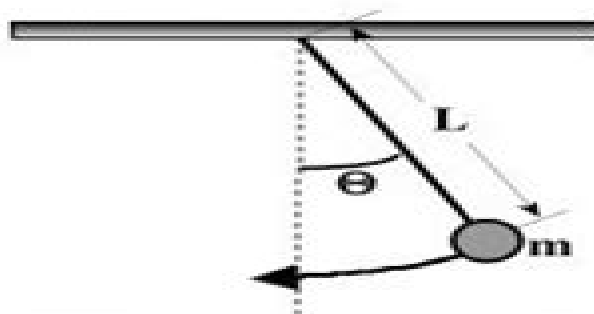
*"Why," said the Dodo, "the best way to explain it is to do it." Lewis Carroll in Alice in Wonderland.*

*Imagination is more important than knowledge.      Albert Einstein*

*Its hard to imagine what knowledge would be like without some imagination.      Physics Lab Instructor*

### Introduction

In examining the behavior of a simple pendulum (below) in a previous (possibly 290) lab, we made the simplifying assumption that, for small initial launch angles, the  $\sin\theta$  can be approximated by  $\theta$  itself.



This gave us a rather simple expression for the period of a simple pendulum,  $T$ , that depended on the physical parameters  $L$  (length of pendulum), and  $g$  (acceleration at the Earth's surface owing to gravity) but not  $m$  (the mass of the pendulum bob). The simple expression is arrived at by considering the "return torque" ( $\tau = L \cdot mg \sin\theta$ ), on the oscillator and the inertia which causes it to overshoot equilibrium, in this case the moment of inertia  $I = mL^2$ . The simple expression is the equation of motion for the pendulum:

$$\ddot{\theta} + \frac{g}{l} \sin\theta = 0 \Rightarrow \ddot{\theta} + \frac{g}{l} \theta = 0 \quad (1)$$

This simple expression can be solved for the period of the pendulum in the usual way, by assuming that  $t$  is some periodic function in time such as  $A\sin(\omega t + \phi)$ , taking it's second derivative, substituting, and solving for  $\omega$ . This equation constitutes a simple **model** for the pendulum motion, given  $\omega$ ,  $\phi$  and  $A$ , we state the mass's position at a time  $t$ .

Some assumptions are built into our simple model for the period of a simple pendulum as we have conceived it. An explicit assumption is that the initial (or *launch*) angle of the pendulum, sometimes called its initial displacement, is small. Less than  $20^\circ$  to be more precise. There is

# Lab Report Investigating A Simple Pendulum

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Education, Center for Education, Board  
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High School Laboratories: Role and  
Vision**

## 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 Experiments Jerry D. Wilson, 1994 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 *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

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**Sixteen Experimental Investigations from the Harvard Psychological Laboratory** Harvard Psychological Laboratory, 1903

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**Interactive Collaborative 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.

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