

LAB 5: Uniform Circular Motion

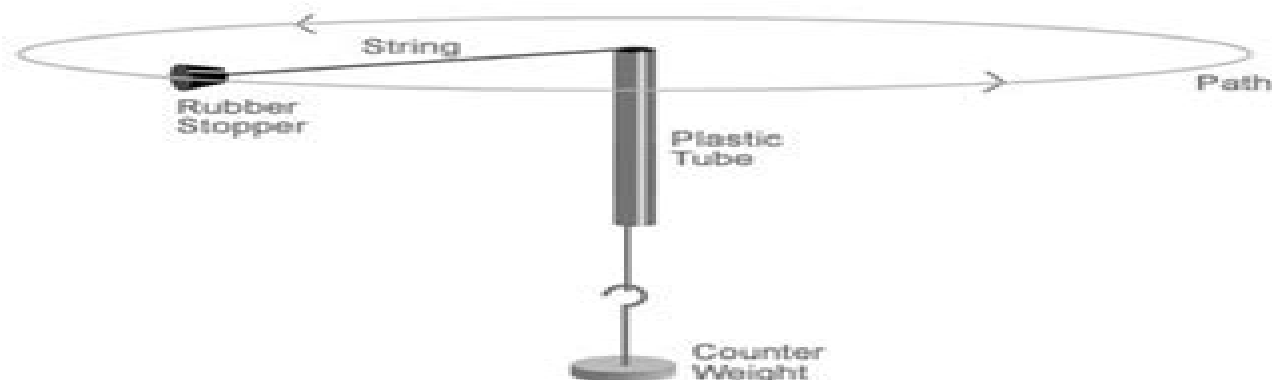
You will need a few formulas from Lab 1 to analyze the data in this lab. Your report should have answers to questions 1 - 15 below.

Review Ch.6 Sec. 1-3 (and Ch.10 Sec. 5 for question 14) of the OpenStax textbook for this lab.

According to Newton's first law, objects in motion tend to move along a straight line unless acted on by a force. In order to change the magnitude *or direction* of velocity, a force must be applied. The force needed to keep an object moving in a circle is called the centripetal force. A centripetal force gives rise to a centripetal acceleration. If the magnitude of centripetal force is constant, the magnitude of centripetal acceleration will be constant as well.

The centripetal acceleration a_c is related to the speed of an object moving in a circle as $a_c = v^2 / r$, where v is the speed and r the radius of the circle.

In this lab, a mass hanging from a string (the counter weight) supplies a constant centripetal force needed to keep a smaller mass (the rubber stopper) going in a circle at a constant speed v . Your goal is to use the data collected in the experiment to verify the above expression for the centripetal acceleration ($a_c = v^2 / r$).



Let M be the mass of the counter weight and m the mass of the rubber stopper. Newton's 2nd law for the stopper is

$$Mg = ma_c$$

- 1) Draw a free body diagram for the system (the stopper, the string, and the counter weight). Justify the relation given above (neglect the fact that the string keeping the stopper on the circular path is not exactly horizontal).
- 2) For an object on a circular path, which direction does the centripetal force vector point?
- 3) For an object on a circular path, which direction does the centripetal acceleration vector point?

Circular Motion Lab Answers

Suanne Laqueur



Circular Motion Lab Answers:

Take-Home Physics: 65 High-Impact, Low-Cost Labs Michael Horton, 2009-05-30 *Earthquake Engineering Research Center Library Printed Catalog* University of California, Berkeley. Earthquake Engineering Research Center. Library, 1975

Teaching High School Science Through Inquiry Douglas Llewellyn, 2005 This is the secondary school version of Llewellyn's strong Corwin debut *Inquire Within Implementing Inquiry Based Science Standards* 2000 This book focuses on raising a teacher's capacity to teach science through an inquiry based process implementing inquiry as stated by the national standards

Physics Physical Science Study Committee, 1965 **University of Michigan Physics Laboratory Experiments** Michael J. Longo, 1991 *Proceedings of International Conference on Communication and Artificial Intelligence* Vishal Goyal, Manish Gupta, Seyedali Mirjalili, Aditya Trivedi, 2022-05-09 This book is a collection of best selected research papers presented at the International Conference on Communication and Artificial Intelligence ICCAI 2021 held in the Department of Electronics Communication Engineering GLA University Mathura India during 19-20 November 2021 The primary focus of the book is on the research information related to artificial intelligence networks and smart systems applied in the areas of industries government sectors and educational institutions worldwide Diverse themes with a central idea of sustainable networking solutions are discussed in the book The book presents innovative work by leading academics researchers and experts from industry

Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03

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Report, 1975 Motion, Forces Prentice-Hall Staff, 1994 Reviewed in *The Textbook Letter* 3 4 94 Printed Catalog

University of California, Berkeley. Earthquake Engineering Research Center. Library,1975 **Physics** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2006 *Innovations in Engineering Design Education* American Society of Mechanical Engineers,1993 Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science ,2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Physics** Bernadine Hladik (NA) Cook,2004-08-27 **Hovering Craft & Hydrofoil** ,1967 Te HS&T 2007 Shrt Crs M Holt Rinehart & Winston,2007

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