

Physics Labs With Computers Centripetal Solution

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For the physics behind circular motion, see KJ Ch. 6.1 through 6.3. In this lab, we are going to be working with the following setup: For somewhat complicated reasons (which you will work out in Question 3), we can ignore the angle θ , and pretend it is always zero, such that we can pretend $T = F_C$ and $R = r$ for the purposes of this experiment only.

SBU Intro Physics Labs, PHY 121 Centripetal Force Lab

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Is the resultant $T + W$ (that is, the horizontal component of T) the centripetal force? Refer to the following information for the next three questions. In the case shown below, the rock rides on a horizontal disk that rotates at constant speed about its vertical axis (dotted line).

PhysicsLAB: Centripetal Force

should have already learned the centripetal force equation relating these factors. Your goal in part I of this lab is to use these techniques to verify that $v^2 = r a_c$. As you learned in the Lab Guide and in the Pendulum lab and other labs you can find the relations between F_C and the mass, for example, by measuring the force for a number of ...

Lab 5.1 - Centripetal Force

Physics Labs with Computers, Vol. 1 Student Workbook P26: Centripetal Force on a Pendulum 012-07000A p. 192 ©1999 PASCO scientific P26 1. Use a stop watch to determine the time Δt of $N = 20$ -25 complete vibrations of the pendulum, and put the values of N and Δt in the table. 2.

Experiment#7 - Centripetal Force on a Pendulum

Circular Motion and Centripetal Force LAB MECH 12. COMP From Physics with Computers, Vernier Software & Technology, 2003. INTRODUCTION With circular motion there is a force directed perpendicular to the motion and towards the center that is common to our awareness. This force is at work in an automobile

S CIRCULAR MOTION AND CENTRIPETAL FORCE

Centripetal Force By: Alexander Jones. Abstract. In this experiment Newton's first and second laws of motion were used to study and verify the expression for the force, F , to be provided to mass, m , to execute circular motion.

Centripetal Force Experiment: Lab Analysis

HTML 5 Physics Lab Simulations. The simulations listed below are programs that I wrote for my students to use in lab as a compliment to a live part of the lab. These programs were written to work on computers, tablets, phones and other handheld devices with HTML 5 capable browsers. All functionality for these programs comes from using the mouse ...

McCulley's HTML 5 Physics Lab Simulations

In our experiment, mass m_1 will be the mass of a rubber stopper moving at a constant tangential speed of v_t at the end of a nylon cord of length r . The centripetal force will be supplied by a mass m_2 that is attached to the bottom of the nylon cord. See the above figure. Mass m_2 will include

both the slotted mass and a hanger.

Centripetal Force Lab - Liberty High School

Physics 20 | Speed and Centripetal Force Lab Instructions for procedure and report. #science #physics #grade10 #grade11 #physics20 #science10 #chemistry #biology #help #lessons #tutor # ...

Physics 20 | Speed and Centripetal Force Lab

Lab 3 15 Lab 3. Centripetal Force Introduction Those of you who have tied an object to a string and whirled it in a horizontal circle above your head no doubt have recognized that you have to pull on the string and therefore on the object in a direction toward the center of the circle if you wish to have circular motion. This pull or force is

Lab 3. Centripetal Force - msutexas.edu

Ballistic Pendulum Mini Lab; Centripetal Force Lab; Rotational Motion Lab; Moons of Jupiter Lab; Centripetal Force Lab. Purpose The purpose is to find the relationship between Centripetal Force and Tangential velocity. WE have to graph the data we collect and determine a mathematical model that describes the relationship. ... In the computer ...

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