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For the physics behind circular motion, see KJF 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

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 ...

Centripetal Force Lab - Tamara- AP Physics

The following experiments are new to Physics with Vernier: 03 Cart on a Ramp 20 Centripetal Acceleration 21 Real World Accelerations . The following experiments used to be in Physics with Computers but have been discontinued: 03 Modern Galileo 18 Work and Energy. The following physics experiments have been renumbered:

Where are the experiment files for Physics with Computers ...

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

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

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

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

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 $v^2 (=) *r$, 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

The tendency of a moving object to continue in a straight line in the absence of an unbalanced force and to turn in a circle in the presence of a inward-directed force (i.e., centripetal force) is a common experience as a passenger in an automobile.

The Centripetal Force Requirement - physicsclassroom.com

Any force can act as a centripetal force be it gravity, tension, friction, or a combination there of. The summation of the forces on the mass, acting in the radial direction, collectively are the centripetal force causing the circular motion. One method to determine the centripetal force acting on a mass is to utilize

Centripetal Force - utsa.edu

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

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

Although the merry-go-round has no angular acceleration, the rider is experiencing a centripetal acceleration towards the center of the circle, or the axis of rotation. This type of acceleration acts parallel to the radius of the circle and is often referred to as radial acceleration.

PhysicsLAB: Centripetal Acceleration and Angular Motion

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

The physics laboratory is a mixture of pre-laboratory exercises, in-class experiments, computer simulations, and lab reports. We are often upgrading and updating lab equipment, computers, software and the web site, so changes may occur. Announcements of changes in laboratories will be made during the previous lab.

Physics 105-115 Lab Home Page

Physics with Vernier has 35 experiments in mechanics, sound, light, electricity, and magnetism. This book has a wide variety of experiments for Motion Detectors, Force Sensors, Light Sensors, Magnetic Field Sensors, Microphones, Current & Voltage Probes, Photogates, Temperature Probes, and Accelerometers.

Physics with Vernier 4th Edition

Be more specific than just saying "we're going to measure centripetal force." After you have formulated a plan, perform the experiment. Your lab report will consist of the proposal, the experimental protocol you followed, the data you took, and the verification (or falsification) of the

relation above. Enter your experimental plans in the box ...

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