

Centripetal Force Lab With Answers

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Centripetal Force Lab With Answers

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

Lab 3 15 Lab 3. Centripetal Force Introduction ... Please answer the following in a thoughtful, well-written paragraph answer. 1. What is the effect of variation of radius on centripetal force? What happened when you moved the bob out to the farthest length compared to the original setting? What would

Lab 3. Centripetal Force - msutexas.edu

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 - odinity.com

Centripetal Force Lab Saddleback College Physics Department, adapted from PASCO Scientific 1. Purpose ... The Centripetal Force experiment requires that the rotating platform assembly be extremely level. If it is not level, the experimental results will be wildly different from the theoretical results.

Centripetal Force Lab - Saddleback College

Centripetal Force Lab. Patrick yoha Period 6/7 Purpose of lab: To be able to determine the relationship between centripetal force, mass, velocity, and the radius of orbit for a body that is undergoing centripetal acceleration Background Information: Centripetal forces are forces that hold a revolving object in its circular path. It is center seeking, and necessary for circular motion.

Physics - Centripetal Force Lab Report | Tension (Physics ...

Centripetal Force (ANSWER KEY) 1. (Serway, p. 238, #1) A 2.10 m rope attaches a tire to an overhanging tree limb. A girl swinging on the tire has a tangential speed of 2.50 m/s. If the magnitude of the centripetal force is 88.0 N, what is the girl's mass? Solve the following problems

Centripetal Force (ANSWER KEY) - Croom Physics

Classic Circular Force Lab. This lab will let you determine the speed needed to keep an object in circular motion. You will be able to change the force holding the object in a circle by clicking on the washers (each washer is 10 grams). You can adjust the radius of the circle by clicking on the masking tape that is just below the tube.

Classic Circular Force Lab - The Physics Aviary

The most difficult quantity (of mass, speed, and radius) to hold constant from trial to trial in an experiment is the speed of the object, so it is easiest to study the effect of speed on centripetal force, since it is relatively easy to hold the mass of the object and the radius of the circle constant.

Physics Lab - Centripetal Force & Speed

Centripetal Force Practice Questions: $F_c = mv^2 / r$ ANSWERS. 1. If you are on a rotating space station that has a radius of 100m, and it is rotating at a velocity of 2m/s, how much would you "weigh"?

Centripetal Force Practice Questions Answers

12d-Centripetal Force Lab 1-17-09 - 1 - CENTRIPETAL FORCE Introduction The purpose of this lab is to use Newton's 2 nd Law to predict the dynamic centripetal force on a rotating mass based on the measurement of the mass (m), radius of rotation (r), and the period of rotation (T). This force will then be measured statically and compared to the

12d-Centripetal Force Lab 1-17-09 - Austin Community College

There is a lot going on in this problem and it will take several steps to get to the answer. However, when you boil the question down, we are pretty much asked how fast must the ride spin so that the centripetal force on the student provides enough static friction to keep the student from falling. ... Centripetal Force And Acceleration ...

Centripetal Force and Acceleration - AP Physics 1

Join the ladybug in an exploration of rotational motion. Rotate the merry-go-round to change its angle, or choose a constant angular velocity or angular acceleration. Explore how circular motion relates to the bug's x,y position, velocity, and acceleration using vectors or graphs.

Ladybug Revolution - PhET

A Van de Graaff generator experiment! - Duration: 8:20. ... Centripetal force problem ... Khan Academy Physics 221,537 views. 15:00. Bill Nye Answers Even More Science Questions From Twitter ...

Centripetal Force lab

In the model above, what object(s) represent(s) the force of gravity? 6. How do we measure the centripetal force of the swinging stopper? ... Turn in your answers to the above questions, your data chart, and your graph. Title: Microsoft Word - Centripetal Force Worksheet.doc

Centripetal Force Worksheet - Mr. Swanson's Physics Class

Centripetal Force Introduction- The purpose of this lab was to determine the centripetal force acting on an object that. rotated in a circle and the relationship between FC, mass, and radius on the period of rotation of the object. Since the object is moving in a circle at a constant speed, we call this uniform circular motion.

Centripetal Force Lab With Answers

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