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Central European University Press

Centripetal Force Lab Saddleback College Physics Department, adapted from PASCO Scientific 1. Purpose To use a PASCO apparatus containing a rotating brass object to confirm Newton's Second Law of rotation by varying the following parameters: (1) the radius of the brass object

centripetal force (not centrifugal!). Centripetal is Latin for "center seeking." So a centripetal force is a center seeking force which means that the force is always directed toward the center of the circle. Without this force, an object will simply continue moving in straight line motion.

Experiment 6: Centripetal Force Introduction This experiment is concerned with the force necessary to keep an object moving in a constant circular path. According to Newton's 1st law of motion there must be forces acting on an object moving in a circular path since it does not move off in a straight line. The second law of motion

Centripetal Force Lab Purpose: 1. To study the nature of Centripetal Force 2. To measure the relationship between Centripetal Force, mass, and velocity Apparatus: 1. Centripetal Force Kit consisting of: PVC tubing Nylon cord Rubber stopper 2. Slotted masses: 50g, 100g, 150g, 200g 3. Slotted Mass Hanger 4. Stop Watch 5. Triple Beam Balance 6

In this lab you'll explore the factors determining the centripetal force acting on a body traveling in a circle. By this point you 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 $v = \omega r$,

LAB REPORT: Centripetal Acceleration (CFA) By: First,Max,Pim,PatGail 102 OBJECTIVES In this experiment, you will • Collect force, velocity, and radius data for a mass undergoing uniform circular motion.

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 29.56m/s. 2.

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

12d-Centripetal Force Lab 1-17-09 - 1 - CENTRIPETAL FORCE Introduction The purpose of this lab is to use Newton's 2nd 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

Centripetal Acceleration Activity – Accelerometer Worksheet – Answers Centripetal Acceleration Activity – Accelerometer Worksheet – Answers 1) What is the equation used for determining centripetal force and describe all components of that equation? The equation used for centripetal force is $F = m (V^2 / r)$, where M is the mass, V is the