

## Centripetal Force Lab With Answers

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### Centripetal Force Lab With Answers

Centripetal force is the required force to keep any object in accelerated motion within a curved path. This force is directed towards the center of path's curvature and depends on the radius constant speed, and mass from the path's center.

### Physics Lab Report - CENTRIPETAL FORCE - PHYS 1441 - StuDocu

Lab 3 22 Questions: 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 happen if you moved the bob closer to the axis of rotation? 2.

### Lab 3. Centripetal Force - MSU Texas

The acceleration of an object moving in uniform circular motion is  $a = v^2/r$ , so the magnitude of the centripetal force of an object with a mass ( $m$ ) that is moving with a velocity ( $v$ ) in a circular orbit of radius ( $r$ ) can be found from The distance (circumference) around a circle is  $2\pi r$ .

### Experiment 6: Centripetal Force - Goddard Physics

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### Centripetal Force Questions and Answers | Study.com

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 centripetal force is provided by the tension in the spring attaching the bob to the shaft. We can measure the tension in the spring in a static state, i.e., without rotation as shown in the Figure 3b. When the bob is not rotating, it will be pulled toward the shaft. A force can be applied in opposite direction to the tension in the spring.

### CENTRIPETAL FORCE - City University of New York

Uniform Circular Motion - Centripetal Force Lab: need help with post lab questions. DESCRIPTION & PURPOSE. Uniform circular motion is when an object travels at a constant speed along the circumference of a circle, with both the distances and the time intervals being equal. There are several other variables that are used to characterize the motion.

### Solved: Uniform Circular Motion - Centripetal Force Lab: N ...

Use a Cartesian coordinate graph ( $X$ - $Y$ ). Let  $X$  be the value of  $v^2$ . Let  $Y$  be the value of centripetal force  $P = mv^2/r$ . Set  $m/r = 1$ , or any other value you wish. Then work out the  $X$ - $Y$  values:...

### centripetal force lab? | Yahoo Answers

Objectives: Our objective in this lab is to describe why the centripetal force is necessary for the circular motion. Also, our objective is to explain how the frequency of rotation of the object, mass, and radius affects the magnitude of the centripetal force to form a constant circular motion.

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Procedures: Manual Centripetal Force Apparatus: 1 ...

## LR - Centripetal Force - lab reports - PHY 215 - BMCC ...

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## Centripetal Force Lab? | Yahoo Answers

Centripetal force Worksheet with Answers Along with Kinematics Practice Problems Worksheet Answers. Maybe you have a free-handed approach to writing. It doesn't matter what it is, whatever it is, you can write out questions and look at what you've written out. Try checking to see if you can figure out why someone wrote the question that way ...

## Centripetal Force Worksheet with Answers

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

PreLab: Centripetal Force Instructions: Prepare for this lab activity by answering the questions below. Note that this is a PreLab. It must be turned in at the start of the lab period. Time cannot be given in lab to perform PreLab activities. After the start of lab activities, PreLabs cannot be accepted. Explain your answers. Points will be ...

## PreLab: Centripetal Force

Centripetal acceleration is the force that we feel when an object is undergoing an uniform circular motion such as when going around a curve, or on a loop to loop roller coaster. It is the force that keeps an object in a circular motion. Without it, Earth would move in a straight line and satellites would fall out of the sky.

## Relationship between the centripetal acceleration and the ...

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The centripetal force of satellites is similar to gravitational force because they are both a net force towards the center of earth. answer choices True

## Circular Motion and Centripetal Force Quiz - Quizizz

The centripetal force that holds you in the ride can be determined with a few measurements and calculations. In this experiment you will determine what variables must be known to determine the centripetal force required to keep a mass moving in a circular path with a constant speed.

## Lab 5 - Uniform Circular Motion

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 - Rotation | Motion | Circular ...

The total weight of the washers provides the centripetal force for the circular motion. Each the provides the dentripetal force washer has a mass of  $m = 10$  g. The experimental value of the centripetal force is then  $F_{op} = Nmg = 8$ . Compare the values of Fame and F.

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