

Circular Motion Study Guide

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motion tends to remain ____ in a straight line b Rotational inertia: An object rotating about an axis tends to keep ____ about that axis, while nonrotating object tends to stay ____ c Just as it takes a force to change linear state of motion, a ____ is required to change the rotational state of ...

Circular Motion Study Guide Mr. Neff

circular orbit), or a centripetal friction force (allowing a car to round a corner) Some people also think objects in uniform circular motion also experience an outward ____ force This is an ____ When an object moves in a circle, its inertia causes it to resist changes in its state of motion

Circular Motion and Gravitation Chapter Study Guide

Holt Physics 1 Study Guide Circular Motion and Gravitation Chapter Study Guide Teacher Notes and Answers 1 a Inertia tends to carry the passenger in a straight line tangent to the circular motion b Friction between the car's tires and the road provides a centripetal force that keeps the car moving in a circle c 14 m/s² d 14 103 N 2 a

Circular Motion and Gravitation Section Study Guide

Holt Physics 1 Study Guide Circular Motion and Gravitation Section Study Guide Teacher Notes and Answers CIRCULAR MOTION 1 a yes b The car has a non-zero acceleration because the direction of motion is changing c The direction of centripetal acceleration is toward the center of the circle In this case, the direction is toward the center

AP Physics 1 Investigation 3: Circular Motion

AP Physics 1 Investigation 3: Circular Motion How do you determine the period of a conical pendulum? Central Challenge In this investigation, students use a toy that executes motion in a conical pendulum to study circular motion Given only a meterstick and a stopwatch, they must design a procedure and make measurements to predict the period of

Chapter 10. Uniform Circular Motion

Chapter 10 Uniform Circular Motion A PowerPoint Presentation by Paul E Tippens, Professor of Physics Southern Polytechnic State University
Uniform circular motion is motion along a circular path in which there is no change in speed, only a change in direction Constant force

Conceptual questions for Circular motion

Circular motion Conceptual Questions Multiple choice Questions Question 1: A small car and a big truck travel at the same speed v around the icy banked curve road Small car which has a mass m negotiates the curve without slipping Truck, which has a mass $25m$...

Chapter 5

57 Vertical Circular Motion In vertical circular motion the gravitational force must also be considered An example of vertical circular motion is the vertical "loop-the-loop" motorcycle stunt Normally, the motorcycle speed will vary around the loop The normal force, F_N , and the weight of the cycle and rider, mg , are shown at four

CHAPTER 6 Reproducible Pages Contents

c a car driving in a circle in uniform circular motion d a person on a carnival ride that has hanging baskets that are whirled around horizontally in uniform circular motion 8 What is the relationship between the centripetal acceleration of an object in uniform circular motion and the object's velocity? 6 Study Guide continued Name

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Using Newton's Laws: Friction, Circular Motion, Drag Forces

5-2 Uniform Circular Motion—Kinematics Uniform circular motion: motion in a circle of constant radius at constant speed Instantaneous velocity is always tangent to the circle Figure 5-10 Caption: A small object moving in a circle, showing how the velocity changes At each point, the instantaneous v_e

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Name Period Chapter 6 STUDY GUIDE Complete on a ...

Name Period Chapter 6 - Projectile and Circular Motion STUDY GUIDE Complete on a SEPARATE SHEET of paper Vocabulary: Define the following terms Concept Questions: Answer the following questions 16 You throw a ball up into the air

STUDY GUIDE FOR MOTION ASSESSMENT

STUDY GUIDE FOR MOTION ASSESSMENT An object like to Ferris Wheel is moving in a circular path because it is changing its velocity VII Circular Motion : Are these examples of acceleration? Yes, because you are "continuously" _____ direction

Notes on (calculus based) Physics

Notes on (calculus based) Physics Prachi Parashar¹ and K V Shajesh² Department of Physics, as a study-guide Last updated: December 9, 2015 These are notes prepared for the benefit of students enrolled in PHYS-205A and PHYS-205B, calculus based 2 Motion in one dimension 15

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UNIFORM CIRCULAR MOTION 103 ponent form of the equations for rotational motion, it is evident that both sets of equations may also be thought

of as the component form of the general vector equations for the motion of a particle, with the linear equations representing the x component of the motion, while the angular equations

CHAPTER 6 Motion in Two Dimensions - Quia

You can use vectors and Newton's laws to describe projectile motion and circular motion SECTIONS WATCH THIS! WATCH THIS! Video 150 Chapter 6 • Motion in Two Dimensions (I) The McGraw-Hill Companies, (r) Gustoimages/Photo Researchers, Inc will study two types of projectile motion The top of Figure 1 shows water

Chapter 3: 2D Kinematics

circular motion, ie, its direction changes constantly Uniform circular motion • Although the speed, v , does not change, the direction of the motion does, ie, the velocity, which is a vector, does change • Thus, there is an acceleration associated with the motion

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