



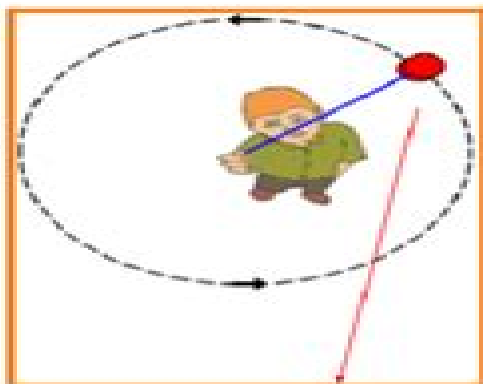
Name: james john

Date:

## Student Exploration: Uniform Circular Motion

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** acceleration, centripetal acceleration, centripetal force, Newton's first law, Newton's second law, uniform circular motion, vector, velocity



**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

1. A boy is whirling a yo-yo above his head in a counter-clockwise direction. At the exact moment shown at left, he lets go of the string. In which direction will the yo-yo travel? Draw an arrow on the image to show the yo-yo's direction. Click on the image to select **EDIT** to use the drawing tool.
2. Do you think the released yo-yo's path will be straight or curved? Explain.

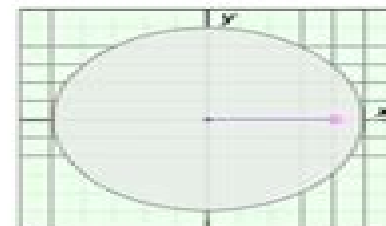
Probably curved because it has been curving.

### **Gizmo Warm-up**

The *Uniform Circular Motion* Gizmo shows a pink puck that is floating above a circular air table. The puck is held to the center of the

table by a string so that it travels in a circle at a constant speed.

Check that the **radius** is 8.0 m and the **mass** is 5.0 kg. Set the **velocity** to 5.0 m/s.



1. Turn on **Show puck position (m)**. What are the coordinates of the puck's position?

(8,0)

2. Click **Play** (▶), and then click **Pause** (⏸) when the puck is close to the y-axis. What is the puck's position now?

(-1.56, 7.85)

3. Click **Reset** (↺). Select the **BAR CHART** tab and select **Velocity** from the dropdown menu. The three bars represent the magnitude, the x component, and the y component of the puck's **velocity**.

A. Click **Play**. Does the magnitude of the velocity change over time?

no

# Uniform Circular Motion Gizmo Guide

**Open University. MST209 Course  
Team,OU Course Team**



### **Uniform Circular Motion Gizmo Guide:**

Unit 20 Open University. MST209 Course Team,OU Course Team,2005-01 The theme of this unit is rotational motion It concentrates mainly on analysing the circular motion of a particle This can be used to model a wide range of situations such as a child on a swing the pendulum of a clock and a chair o plane roundabout at a fairground In Section 1 we derive the velocity and acceleration of a particle moving in a circle In Section 2 we apply Newton s second law to uniform circular motion i e motion in a circle with constant speed In Section 3 this is extended to non uniform circular motion Section 4 starts to look beyond circular motion to the concepts that are needed to analyse more general rotational motion Circular Motion Supported Self Study Unit,1991

This book delves into Uniform Circular Motion Gizmo Guide. Uniform Circular Motion Gizmo Guide is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Uniform Circular Motion Gizmo Guide, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Uniform Circular Motion Gizmo Guide
    - Chapter 2: Essential Elements of Uniform Circular Motion Gizmo Guide
    - Chapter 3: Uniform Circular Motion Gizmo Guide in Everyday Life
    - Chapter 4: Uniform Circular Motion Gizmo Guide in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Uniform Circular Motion Gizmo Guide. The first chapter will explore what Uniform Circular Motion Gizmo Guide is, why Uniform Circular Motion Gizmo Guide is vital, and how to effectively learn about Uniform Circular Motion Gizmo Guide.
  3. In chapter 2, this book will delve into the foundational concepts of Uniform Circular Motion Gizmo Guide. The second chapter will elucidate the essential principles that need to be understood to grasp Uniform Circular Motion Gizmo Guide in its entirety.
  4. In chapter 3, this book will examine the practical applications of Uniform Circular Motion Gizmo Guide in daily life. The third chapter will showcase real-world examples of how Uniform Circular Motion Gizmo Guide can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Uniform Circular Motion Gizmo Guide in specific contexts. The fourth chapter will explore how Uniform Circular Motion Gizmo Guide is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Uniform Circular Motion Gizmo Guide. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Uniform Circular Motion Gizmo Guide.

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