



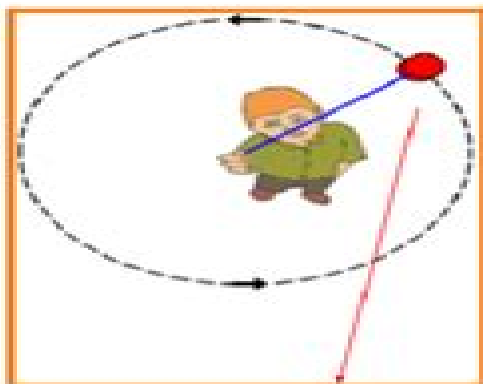
Name: james john

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.

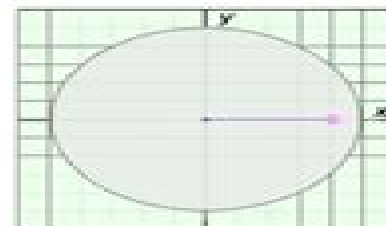
Probably curved because it has been curving.

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**



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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

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