



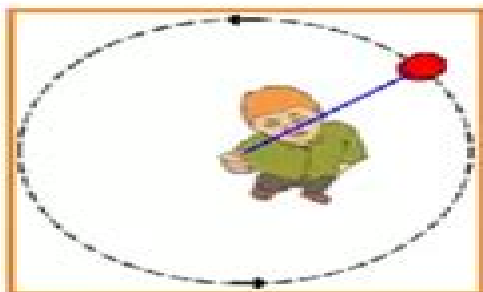
Name:

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 tools.
2. Do you think the released yo-yo's path will be straight or curved? Explain.

I think it will be straight because there isn't any force being applied to the yoyo that will cause it to change directions.

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?

(8.00,0.00)

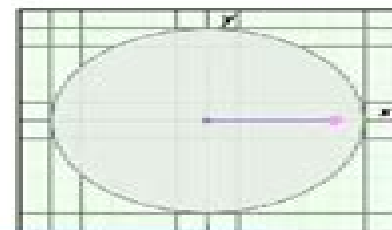
2. Click **Play** (), and then click **Pause** () when the puck is close to the y-axis. What is the puck's position now?

(0.32,7.99)

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?

It stays the same.



Uniform Circular Motion Gizmo Answers

Michael Hoelscher

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Uniform Circular Motion Gizmo Answers:

Unveiling the Magic of Words: A Overview of "**Uniform Circular Motion Gizmo Answers**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Uniform Circular Motion Gizmo Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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