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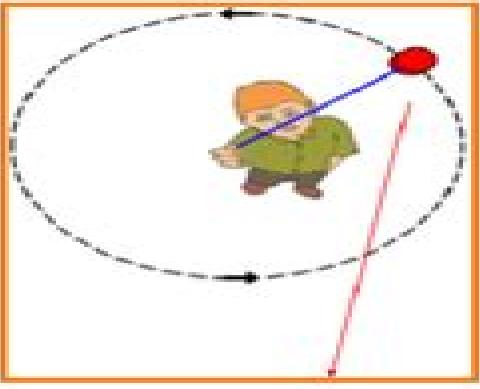
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Student Exploration: Uniform Circular Motion

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.
The yo-yo's path is curved, so it will travel in a straight line tangent to the circle at the point of release.
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)

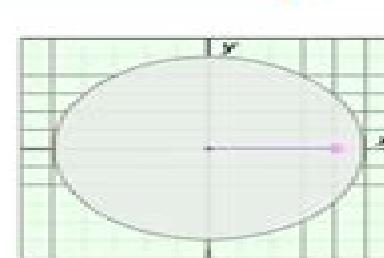
2. Click **Play** (▶), and then click **Pause** (⏸) when the puck is close to the y-axis. What is the puck's position now?

(-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



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