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Student Exploration: Air Track

Vocabulary: air track, approach velocity, conservation of energy, conservation of momentum, elasticity, kinetic energy, momentum, separation velocity, velocity

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

Imagine going to a bowling alley with a bowling ball and a ping pong ball.

1. Why is a bowling ball better for knocking down pins than a ping pong ball? **A bowling ball is much more massive than a ping pong ball.**
2. Which do you think would knock down more pins, a bowling ball moving 10 meters per second or a bowling ball moving 10 centimeters per second? **The 10 m/s bowling ball**
3. What two factors seem to most affect the amount of damage that occurs in a collision?
The mass and speed (velocity) of the objects affect how much damage is done in a collision.

Gizmo Warm-up

An **air track** is a device that helps scientists study motion. Air comes out of holes in the track, allowing the gliders to move with minimal friction.

1. On the Air Track Gizmo, click **Play** () to view a collision between the two gliders.
What do you see? **The gliders hit each other and then bounce back the way they came.**
2. Click **Reset** (). The **velocity** (v) of an object describes its speed and direction. The velocity of each glider is indicated next to the v_1 and v_2 sliders. Click **Play**, and then click **Pause** () just before the collision.
 - A. What is the velocity of **Glider 1**? **5.0 m/s**
 - B. In which direction does **Glider 1** move? **From left to right**
 - C. What is the velocity of **Glider 2**? **-5.0 m/s**
 - D. In which direction does **Glider 2** move? **From right to left**



Explore Learning Student Exploration Air Track Answer Key

Wenbin Ji



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