

Name: _____

Date: _____

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.

Why is a bowling ball better for knocking down pins than a ping pong ball? **A bowling ball is much bigger than a ping pong ball.**

- 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**
- What *two* factors seem to most affect the amount of damage that occurs in a collision? **The mass and speed of the objects 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.



- 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.**
- Click **Reset** (↺). The **velocity** (v) of an object describes its speed and direction. The **velocity** each glider is indicated next to the v_1 and v_2 sliders. Click **Play**, and then click **Pause** (⏸) just before the collision.
 - What is the velocity of **Glider 1**? **5.0 m/s**
 - In which direction does **Glider 1** move? **From left to right**
 - What is the velocity of **Glider 2**? **-5.0 m/s**
 - In which direction does **Glider 2** move? **From right to left**

Gizmos Student Exploration Air Track Key

David Baud



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