



Name: Dario Luciani Date: 4/3/22

## 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**



# Westerville Air Track Answer Key

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