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## Student Exploration: Air Track

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

This is because a bowling ball is way heavier and 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?

I think the 10 m/s bowling ball.

3. What two factors seem to most affect the amount of damage that occurs in a collision?

Both the mass and speed (velocity) of an object affect the amount of damage that occurs 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?

I noticed that the two gliders hit each other and then they bounce back the way they came from.

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**?  
B. In which direction does **Glider 1** move?  
C. What is the velocity of **Glider 2**?  
D. In which direction does **Glider 2** move?

5.0 m/s

From left to right

-5.0 m/s

From right to left

# Explore Learning Air Track Gizmo Answer Key

**SA Adler**



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