

Air Track

Answer Key

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.)

[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]

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*

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