



Name:

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Date:

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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?

Because the bowling ball is heavier then the 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 bowling ball that it is moving 10 meters per second

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

The mass and speed is what makes a collision possible

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?

That it collide but both went backwards

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 m/s

From left to right

-5 m/s

From right to left

Student Exploration Air Track

L Cohen

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Student Exploration Air Track:

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