



Name: _____ Date: 5/9/2023_____

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? **The Bowling ball has a higher mass than 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?
A bowling ball moving 10 meters per second would knock down more pins because of it's mass.
3. What two factors seem to most affect the amount of damage that occurs in a collision?
mass and velocity

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 see two objects that bounced off of each other
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 meters per second**
 - B. In which direction does **Glider 1** move? **East and West after impact**
 - C. What is the velocity of **Glider 2**? **5 meters per second**
 - D. In which direction does **Glider 2** move? **West and East after impact**



Student Exploration Air Track Gizmo Worksheet

Kathleen Armour

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.

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