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## 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 ping pong ball is smaller and more hollow than a bowling 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 traveling at 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 acting on an object determines the damage of the 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? After they hit each other they bounce off one another

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? It moves right

# Student Exploration Air Track Teacher Guide

**LM Reder**



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