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.



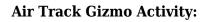
On the Air Track Gizmo, click Play (E) to view a collision between the two gliders.

What do you see? I see two objects that bounced off of each other

- Click Reset (2) The welocity (v) of an object describes its speed and direction. The
  velocity of each glider is indicated next to the v<sub>1</sub> and v<sub>2</sub> sliders. Click Play, and then click
  Pause (2) 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

# **Air Track Gizmo Activity**

**DP Hallahan** 



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