Name: Dario Luciani Date: 4/3/22

# 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.

- 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.
- 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 (E) 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.

- Click Reset (2). The velocity (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 (4) 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

# **Answer Key To Student Exploration Air Track Worksheet**

**RM Cervero** 

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