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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? **A bowling ball is much more massive than a 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 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** () 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.**
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? **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**



# Exploration Sheet Answer Key Air Track

**IM Harris**



**Exploration Sheet Answer Key Air Track:**

## Enjoying the Tune of Appearance: An Emotional Symphony within **Exploration Sheet Answer Key Air Track**

In some sort of eaten by monitors and the ceaseless chatter of immediate transmission, the melodic splendor and psychological symphony developed by the published word usually disappear in to the background, eclipsed by the relentless sound and disturbances that permeate our lives. But, nestled within the pages of **Exploration Sheet Answer Key Air Track** a wonderful fictional prize full of fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this interesting masterpiece conducts readers on a psychological trip, skillfully unraveling the hidden melodies and profound affect resonating within each carefully constructed phrase. Within the depths with this poignant assessment, we will discover the book is main harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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