

## Air Track

## Answer Key

**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.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

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*

# Physics Air Track Gizmo Answer Key

**Padhraic Smyth**

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.

## **Physics Air Track Gizmo Answer Key:**

## Embracing the Melody of Appearance: An Emotional Symphony within **Physics Air Track Gizmo Answer Key**

In a global taken by screens and the ceaseless chatter of quick interaction, the melodic splendor and psychological symphony developed by the prepared term frequently diminish in to the back ground, eclipsed by the relentless noise and disruptions that permeate our lives. However, set within the pages of **Physics Air Track Gizmo Answer Key** a marvelous literary treasure full of natural thoughts, lies an immersive symphony waiting to be embraced. Crafted by a masterful musician of language, this captivating masterpiece conducts viewers on an emotional journey, well unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths with this poignant evaluation, we can discover the book is main harmonies, analyze their enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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