



Name(s): Hayley Lucas

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## Student Exploration: Air Track

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

This is because a bowling ball is way heavier and 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?

I think the 10 m/s bowling ball.

3. What two factors seem to most affect the amount of damage that occurs in a collision?

Both the mass and speed (velocity) of an object affect the amount of damage that occurs 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?

I noticed that the two gliders hit each other and then they bounce back the way they came from.

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?  
B. In which direction does Glider 1 move?  
C. What is the velocity of Glider 2?  
D. In which direction does Glider 2 move?

5.0 m/s

From left to right

-5.0 m/s

From right to left

# Exploration Sheet Answer Key For Gizmo Air Track

**Sabine Zange**



## **Exploration Sheet Answer Key For Gizmo Air Track:**

## **Exploration Sheet Answer Key For Gizmo Air Track** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Exploration Sheet Answer Key For Gizmo Air Track**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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## Exploration Sheet Answer Key For Gizmo Air Track Introduction

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