

Name: Jan Louise Quitoriano

Date: November 1, 2021

## 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 heavier and bigger in size 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? **10 meters per second**
3. What two factors seem to most affect the amount of damage that occurs in a collision?

**Two factors that seem to most affect the amount of damage that occurs in a collision are mass and speed.**

### 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 red and blue gliders hit each other, and it bounces back to the direction where 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**? **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**

# Exploration Guide Air Track Answer Key

**Katrin Zwirgmaier**



**Exploration Guide Air Track Answer Key:**

## Adopting the Tune of Expression: An Mental Symphony within **Exploration Guide Air Track Answer Key**

In some sort of eaten by screens and the ceaseless chatter of quick communication, the melodic splendor and emotional symphony produced by the published word usually diminish into the backdrop, eclipsed by the constant sound and disturbances that permeate our lives. However, situated within the pages of **Exploration Guide Air Track Answer Key** an enchanting literary value overflowing with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that interesting masterpiece conducts readers on a mental trip, well unraveling the concealed melodies and profound influence resonating within each carefully crafted phrase. Within the depths of the moving review, we can examine the book is key harmonies, analyze its enthralling writing design, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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