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Date: April 28th, 2022

## 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? The ping pong ball is smaller and more hollow than a bowling 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 bowling ball traveling at 10 meters per second



3. What two factors seem to most affect the amount of damage that occurs in a collision? The mass and speed acting on an object determines the damage of the 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? After they hit each other they bounce off one another

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? It moves right

# Explore Learning Gizmo Student Exploration Air Track Answers

**L Reisser**



## **Explore Learning Gizmo Student Exploration Air Track Answers:**

This book delves into Explore Learning Gizmo Student Exploration Air Track Answers. Explore Learning Gizmo Student Exploration Air Track Answers is a crucial topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Explore Learning Gizmo Student Exploration Air Track Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Explore Learning Gizmo Student Exploration Air Track Answers
    - Chapter 2: Essential Elements of Explore Learning Gizmo Student Exploration Air Track Answers
    - Chapter 3: Explore Learning Gizmo Student Exploration Air Track Answers in Everyday Life
    - Chapter 4: Explore Learning Gizmo Student Exploration Air Track Answers in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Explore Learning Gizmo Student Exploration Air Track Answers. This chapter will explore what Explore Learning Gizmo Student Exploration Air Track Answers is, why Explore Learning Gizmo Student Exploration Air Track Answers is vital, and how to effectively learn about Explore Learning Gizmo Student Exploration Air Track Answers.
  3. In chapter 2, the author will delve into the foundational concepts of Explore Learning Gizmo Student Exploration Air Track Answers. The second chapter will elucidate the essential principles that must be understood to grasp Explore Learning Gizmo Student Exploration Air Track Answers in its entirety.
  4. In chapter 3, this book will examine the practical applications of Explore Learning Gizmo Student Exploration Air Track Answers in daily life. The third chapter will showcase real-world examples of how Explore Learning Gizmo Student Exploration Air Track Answers can be effectively utilized in everyday scenarios.
  5. In chapter 4, the author will scrutinize the relevance of Explore Learning Gizmo Student Exploration Air Track Answers in specific contexts. The fourth chapter will explore how Explore Learning Gizmo Student Exploration Air Track Answers is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Explore Learning Gizmo Student Exploration Air Track Answers. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Explore Learning Gizmo Student Exploration Air Track Answers.

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