

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

F Rizvi

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.

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Table of Contents Physics Air Track Gizmo Answer Key

1. Understanding the eBook Physics Air Track Gizmo Answer Key
 - The Rise of Digital Reading Physics Air Track Gizmo Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics Air Track Gizmo Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physics Air Track Gizmo Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Air Track Gizmo Answer Key
 - Personalized Recommendations
 - Physics Air Track Gizmo Answer Key User Reviews and Ratings
 - Physics Air Track Gizmo Answer Key and Bestseller Lists
5. Accessing Physics Air Track Gizmo Answer Key Free and Paid eBooks
 - Physics Air Track Gizmo Answer Key Public Domain eBooks
 - Physics Air Track Gizmo Answer Key eBook Subscription Services
 - Physics Air Track Gizmo Answer Key Budget-Friendly Options

6. Navigating Physics Air Track Gizmo Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics Air Track Gizmo Answer Key Compatibility with Devices
 - Physics Air Track Gizmo Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics Air Track Gizmo Answer Key
 - Highlighting and Note-Taking Physics Air Track Gizmo Answer Key
 - Interactive Elements Physics Air Track Gizmo Answer Key
8. Staying Engaged with Physics Air Track Gizmo Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics Air Track Gizmo Answer Key
9. Balancing eBooks and Physical Books Physics Air Track Gizmo Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics Air Track Gizmo Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physics Air Track Gizmo Answer Key
 - Setting Reading Goals Physics Air Track Gizmo Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physics Air Track Gizmo Answer Key
 - Fact-Checking eBook Content of Physics Air Track Gizmo Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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