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Date: 1/26/21

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

Gizmos Student Exploration Air Track

Michael Brown

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name bar.

Gizmos Student Exploration Air Track:

Decoding **Gizmos Student Exploration Air Track**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gizmos Student Exploration Air Track**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Gizmos Student Exploration Air Track

1. Understanding the eBook Gizmos Student Exploration Air Track
 - The Rise of Digital Reading Gizmos Student Exploration Air Track
 - Advantages of eBooks Over Traditional Books
2. Identifying Gizmos Student Exploration Air Track
 - 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 Gizmos Student Exploration Air Track
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gizmos Student Exploration Air Track
 - Personalized Recommendations
 - Gizmos Student Exploration Air Track User Reviews and Ratings
 - Gizmos Student Exploration Air Track and Bestseller Lists

5. Accessing Gizmos Student Exploration Air Track Free and Paid eBooks
 - Gizmos Student Exploration Air Track Public Domain eBooks
 - Gizmos Student Exploration Air Track eBook Subscription Services
 - Gizmos Student Exploration Air Track Budget-Friendly Options
6. Navigating Gizmos Student Exploration Air Track eBook Formats
 - ePub, PDF, MOBI, and More
 - Gizmos Student Exploration Air Track Compatibility with Devices
 - Gizmos Student Exploration Air Track Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gizmos Student Exploration Air Track
 - Highlighting and Note-Taking Gizmos Student Exploration Air Track
 - Interactive Elements Gizmos Student Exploration Air Track
8. Staying Engaged with Gizmos Student Exploration Air Track
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gizmos Student Exploration Air Track
9. Balancing eBooks and Physical Books Gizmos Student Exploration Air Track
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gizmos Student Exploration Air Track
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gizmos Student Exploration Air Track
 - Setting Reading Goals Gizmos Student Exploration Air Track
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gizmos Student Exploration Air Track
 - Fact-Checking eBook Content of Gizmos Student Exploration Air Track
 - 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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