

Name: _____ Date: 5/9/2023 _____

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 Bowling ball has a higher mass 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?
A bowling ball moving 10 meters per second would knock down more pins because of its mass.
3. What two factors seem to most affect the amount of damage that occurs in a collision?
mass and velocity

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 see two objects that bounced off of each other
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 meters per second**
 - B. In which direction does **Glider 1** move? **East and West after impact**
 - C. What is the velocity of **Glider 2**? **5 meters per second**
 - D. In which direction does **Glider 2** move? **West and East after impact**

Answers For Gizmo Worksheet Student Exploration Air Track

Marcia L. Tate



Answers For Gizmo Worksheet Student Exploration Air Track:

100 Brain-Friendly Lessons for Unforgettable Teaching and Learning (9-12) Marcia L. Tate, 2019-07-24 Use research and brain based teaching to engage students and maximize learning Lessons should be memorable and engaging When they are student achievement increases behavior problems decrease and teaching and learning are fun In 100 Brain Friendly Lessons for Unforgettable Teaching and Learning 9 12 best selling author and renowned educator and consultant Marcia Tate takes her bestselling Worksheets Don't Grow Dendrites one step further by providing teachers with ready to use lesson plans that take advantage of the way that students really learn Readers will find 100 cross curricular sample lessons from each of the eight major content areas Earth Science Life Science Physical Science English Finance Algebra Geometry Social Studies Plans designed around the most frequently taught objectives found in national and international curricula Lessons educators can immediately replicate in their own classrooms or use to develop their own 20 brain compatible research based instructional strategies that work for all learners Five questions that high school teachers should ask and answer when planning brain compatible lessons and an in depth explanation of each of the questions Guidance on building relationships with students that enable them to learn at optimal levels It is a wonderful time to be a high school teacher This hands on resource will show you how to use what we know about educational neuroscience to transform your classroom into a place where success is accessible for all

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

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answers For Gizmo Worksheet Student Exploration Air Track
 - Chapter 2: Essential Elements of Answers For Gizmo Worksheet Student Exploration Air Track
 - Chapter 3: Answers For Gizmo Worksheet Student Exploration Air Track in Everyday Life
 - Chapter 4: Answers For Gizmo Worksheet Student Exploration Air Track in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Answers For Gizmo Worksheet Student Exploration Air Track. This chapter will explore what Answers For Gizmo Worksheet Student Exploration Air Track is, why Answers For Gizmo Worksheet Student Exploration Air Track is vital, and how to effectively learn about Answers For Gizmo Worksheet Student Exploration Air Track.
 3. In chapter 2, the author will delve into the foundational concepts of Answers For Gizmo Worksheet Student Exploration Air Track. This chapter will elucidate the essential principles that must be understood to grasp Answers For Gizmo Worksheet Student Exploration Air Track in its entirety.
 4. In chapter 3, the author will examine the practical applications of Answers For Gizmo Worksheet Student Exploration Air Track in daily life. The third chapter will showcase real-world examples of how Answers For Gizmo Worksheet Student Exploration Air Track can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answers For Gizmo Worksheet Student Exploration Air Track in specific contexts. The fourth chapter will explore how Answers For Gizmo Worksheet Student Exploration Air Track is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Answers For Gizmo Worksheet Student Exploration Air Track. 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 Answers For Gizmo Worksheet Student Exploration Air Track.

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