

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

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