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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

Answers For Gizmo Worksheet Student Exploration Air Track

Marcia L. Tate

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.

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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