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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

Student Exploration Air Track Answers Key Worksheet

Holt Rinehart & Winston



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Student Exploration Air Track Answers Key Worksheet Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Student Exploration Air Track Answers Key Worksheet**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve to the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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