

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:

Unveiling the Power of Verbal Artistry: An Mental Sojourn through **Answers For Gizmo Worksheet Student Exploration Air Track**

In a global inundated with monitors and the cacophony of fast communication, the profound energy and mental resonance of verbal artistry often fade in to obscurity, eclipsed by the continuous onslaught of sound and distractions. However, nestled within the lyrical pages of **Answers For Gizmo Worksheet Student Exploration Air Track**, a interesting function of literary elegance that impulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Penned with a virtuoso wordsmith, that exciting opus instructions readers on an emotional odyssey, delicately exposing the latent potential and profound affect embedded within the complicated internet of language. Within the heart-wrenching expanse with this evocative examination, we will embark upon an introspective exploration of the book is key styles, dissect its captivating writing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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