



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 it's 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**



Air Track Gizmo Activity

Michael Miller



Air Track Gizmo Activity:

The Baby Gizmo Buying Guide Heather Maclean, 2008-02-12 Real moms reveal the secrets to successful baby gear shopping You've waited your whole life to get your hands on that magic baby product scanning gun And it's brilliant fun For the first three hours And then it gets downright overwhelming You know you need a crib but what about a bassinet a cradle or a play yard The stroller you love comes with a carry cot but can you actually carry the baby in it Will you be able to get the green beans out of the cracks in that adorable high chair You're a smart chick why is this so hard It doesn't have to be The Baby Gizmo Buying Guide is the most comprehensive guide to baby products on the planet Heather Maclean and Hollie Schultz the founders of BabyGizmo.com a product testing and research coalition of moms pediatricians and child development experts walk you through not only standard purchases like car seats and high chairs but also new generation choices like luxury stroller systems and designer diaper bags Amidst Heather and Hollie's real life mom stories and confessions yes they tasted the toys on their babies activity centers you'll discover What you really need versus what's just nice to have Which products to include and not include on your baby registry The best time of the year to buy certain items Which products to store in the perfectly packed diaper bag How to avoid the bad baby product buying cycle Even which products can make you pretty The Baby Gizmo Buying Guide will help you select the right products for your unique needs and lifestyle so you can bask in the bliss of a perfect purchase stroll with confidence and know your neighbors have diaper bag envy

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Boys' Life , 1994-02 Boys Life is the official youth magazine for the Boy Scouts of America Published since 1911 it contains a proven mix of news nature sports history fiction science comics and Scouting

Current , 1980-02

The MAC Flyer , 1984

The Petty Officer's Guide Frederick Charles Dyer, 1966

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