

## Air Track

## Answer Key

**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.)

*[Note: The purpose of these questions is to activate prior knowledge and get students thinking. Students are not expected to know the answers to the Prior Knowledge Questions.]*

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?

*A bowling ball is much more massive than a 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? *The 10 m/s bowling ball!*

3. What two factors seem to most affect the amount of damage that occurs in a collision?

*The mass and speed (velocity) of the objects affect how much damage is done in a 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? *The gliders hit each other and then bounce back the way they came.*

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? *From left to right*
- C. What is the velocity of **Glider 2**? *-5.0 m/s*
- D. In which direction does **Glider 2** move? *From right to left*

# Gizmo Air Track Answers

**A Loxley**



## **Gizmo Air Track Answers:**

*Computerworld* ,1991-08-26 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

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**the Experimenter** ,1957 *Technology Review* ,1997 *Business Review Weekly* ,1999 *Successful Servicing* ,1940

**The Boston Globe Index** ,2001 **3ds Max 6 Animation** Barrett Fox,2004 This text teaches the fundamentals of 3D graphics and animation including modelling surfacing texturing animating lighting and rendering *Scene, Channel 2 and 17* ,1979 VideoHound's Golden Movie Retriever Jim Craddock,2001-08 *VideoHound's Golden Movie Retriever 1999*

Martin Connors,Jim Craddock,1999 This comprehensive guide contains the most extensive listing of movies available on video with 1 000 new movies added categories and more plus a multitude of cross referencing within its 13 primary indexes

*Listener and BBC Television Review* ,1990-05

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