

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

Judd E. Hollander

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.

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

Diamonds, Daimlers and Derby Winners James Jones,2016-10-19 This is a story of diamond smuggling pink argyle diamonds from Australia and fine A grade quality blue and white diamonds from South Africa The smugglers network is worldwide and run by a group of ex commandos and retired soldiers Deadly competition occurs when other gangs and the Mafia as well try to muscle their way in on the smuggling operation There are many surprising twists and turns in the fast moving action The reader will be kept on the edge of his seat not knowing what will happen next

Sport Aviation and 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

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