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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? **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**



# Explore Learning Student Exploration Air Track Answer Key

**M Walker**



## Explore Learning Student Exploration Air Track Answer Key:

**Earth's Surface: Teacher's ed** ,2005      *Runner's World* ,2008-07 Runner s World magazine aims to help runners achieve their personal health fitness and performance goals and to inspire them with vivid memorable storytelling

*Backpacker* ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured      **The Software Encyclopedia 2001** ,2001

**Runner's World** ,2008-07 Runner s World magazine aims to help runners achieve their personal health fitness and performance goals and to inspire them with vivid memorable storytelling      **Bulletin of the Atomic Scientists** ,1963-05 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      *Popular Mechanics* ,2000-01 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      *New York Magazine* ,1997-04-28 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea      New York Magazine ,1997-06-23 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea      Bulletin of the Atomic Scientists ,1973-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world      **Bulletin of the Atomic Scientists** ,1970-06 The Bulletin

of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

*School Library Journal* ,2008      *Indianapolis Monthly* ,2001-12 Indianapolis Monthly is the Circle City s essential chronicle and guide an indispensable authority on what s new and what s news Through coverage of politics crime dining

style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of  
 Indy's cultural landscape      Bulletin of the Atomic Scientists ,1994-01 The Bulletin of the Atomic Scientists is the premier  
 public resource on scientific and technological developments that impact global security Founded by Manhattan Project  
 Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world      *The Complete Sourcebook on*  
*Children's Software* Children's Software Review,2001-03 5000 critical reviews of CDs videogames smart toys for ages 1 to 16  
**Video Source Book** ,2006 A guide to programs currently available on video in the areas of movies entertainment  
 general interest education sports recreation fine arts health science business industry children juvenile how to instruction  
*World History: Connections to Today* Elisabeth Gaynor Ellis,Pearson/Prentice Hall,2003-12      **Bowker's Complete**  
**Video Directory, 1999** ,1999      **Current Index to Journals in Education** ,2002      The American Music Teacher ,1996

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