

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*

Explore Learning Air Track Answer Key

James Augustus Henry Murray



Explore Learning Air Track Answer Key:

Flightpath Teacher's Book Philip Shawcross, Jeremy Day, 2011-08-25 Flightpath is the definitive course for pilots and Air Traffic Controllers who need an ICAO4 level of English to work in the industry Written by Philip Shawcross one of the world's leading Aviation English experts and reviewed by a panel of aviation English specialists this course offers a thorough grounding in the range of communication skills needed by both pilots and Air Traffic Control Officers ATCOs aiming to reach ICAO4 level or above The Teacher's Book is a complete manual and subject matter reference book for Aviation English teachers of any level of experience with detailed notes and instructions for each unit The teacher's notes provide further support and will help the trainer customise the course for pilots ATCOs and mixed classes **Teacher's Manual and Resource Guide for Exploring the Sciences** Herbert Drapkin, 1964 **Teaching Science** Jenny Frost, Richard B. Ingle, 2014-02-25 First published in 1995 This teaching book is packed with practical ideas and advice for the beginning science teacher It is based on three simple principles regarding teaching methods a principle of variety a principle of careful and appropriate choice and a principle of skilful and carefully prepared implementation Through a wide range of examples the authors discuss in richly illustrated detail what these principles involve in practice All the examples are real ones taken from recent classroom experience made more vivid by a large collection of photographs documenting the steps and phases involved in each kind of approach **Prentice Hall Exploring Life Science** Anthea Maton, 1997 *Armor*, 1995 **AAPT Announcer** American Association of Physics Teachers, 1986 *Training*, 2009 **Scientific American**, 1873 Monthly magazine devoted to topics of general scientific interest **Christian Register and Boston Observer...**, 1904 **A New English Dictionary on Historical Principles** James Augustus Henry Murray, Sir William Alexander Craigie, Charles Talbot Onions, 1897 **Youth's Companion**, 1923 German and English Felix Flügel, 1891 **A Universal English-German and German-English Dictionary** Felix Flügel, 1894 **Harper's Weekly** John Bonner, George William Curtis, Henry Mills Alden, Samuel Stillman Conant, Montgomery Schuyler, John Foord, Richard Harding Davis, Carl Schurz, Henry Loomis Nelson, John Kendrick Bangs, George Brinton McClellan Harvey, Norman Hapgood, 1871 **Allgemeines englisch-deutsches und deutsch-englisches wörterbuch** Johann Gottfried Flügel, 1891 *A New English Dictionary on Historical Principles: part 1. D (1897)* James Augustus Henry Murray, 1897 English Mechanic and World of Science, 1883 *The Saturday Evening Post*, 1924 SCC Library has 1974 89 plus scattered issues **The School newspaper Vol. [2 issues of vols. 31 and 32].**, 1889 **Outlook** Alfred Emanuel Smith, Francis Walton, 1875

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