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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**



Student Exploration Air Track Answer Key

Jin-Ying Zhang



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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 **American Journal of Physics**, 2002 *Place-Based Learning* Micki Evans, Charity Marcella Moran, Erin Sanchez, 2024-06-11 Understand the impact a sense of place has on education culture and community The authors share seven place based learning design principles to help educators implement projects smoothly from start to finish With their project planning tools and community asset map teachers school coaches and leaders will be equipped to empower students and promote equity for all Grades 4-12 teachers Instructional designers and school leaders will Learn the seven place based learning design principles and apply them Understand what role maps and countermapping have in establishing a sense of place and how to map community's assets Build meaningful community partnerships with students using collaborative projects Empower students to confront inequitable societal structures Reflect on key takeaways and consider chapter ending questions to further their place based learning practice Contents Foreword by Lisa Delpit Introduction Part One Understand Place Based Learning Design Principles Chapter 1 Elevate Ways of Knowing Chapter 2 Facilitate Purpose Driven Inquiry Chapter 3 Build Authentic Community Partnerships Chapter 4 Empower Student Ownership Chapter 5 Engage in Feedback Revision and Reflection Chapter 6 Create an Authentic Community Product Chapter 7 Embed Culture in Teaching and Learning Part Two Designing Place Based Journeys Chapter 8 Liberate Teaching Practices and Decolonize Curricula Chapter 9 Unpack Biases and Assumptions and Uncover Community Assets Chapter 10 Pathways to Liberatory and Decolonized Assessment Practices Chapter 11 Plan Place Based Learning Projects Part 3 Supporting and Sustaining PBL Implementation With an Equity Lens Chapter 12 Sustain Place Based Learning Through the Practitioner's Round Chapter 13 Dismantle the Barriers to Place Based Learning Chapter 14 Monitor and Assess the Efficacy of Place Based Learning and Build Capacity Epilogue Appendix References and Resources Index **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 *VC-Foundation-C03-Sem2* Abha Sehgal, Sandra D'Souza, Saroja Sundararajan and Jayanthi Ravi, VC Foundation C03 Sem2 **Teaching Science and Investigating Environmental Issues with**

Geospatial Technology James MaKinster, Nancy Trautmann, Michael Barnett, 2013-11-05 The emerging field of using geospatial technology to teach science and environmental education presents an excellent opportunity to discover the ways in which educators use research grounded pedagogical commitments in combination with their practical experiences to design and implement effective teacher professional development projects Often missing from the literature are in depth explicit discussions of why and how educators choose to provide certain experiences and resources for the teachers with whom they work and the resulting outcomes The first half of this book will enable science and environmental educators to share the nature and structure of large scale professional development projects while discussing the theoretical commitments that undergird their work Many chapters will include temporal aspects that present the ways in which projects change over time in response to evaluative research and practical experience In the second half of the book faculty and others whose focus is on national and international scales will share the ways in which they are working to meet the growing needs of teachers across the globe to incorporate geospatial technology into their science teaching These efforts reflect the ongoing conversations in science education geography and the geospatial industry in ways that embody the opportunities and challenges inherent to this field This edited book will serve to define the field of teacher professional development for teaching science using geospatial technology As such it will identify short term and long term objectives for science environmental and geography educators involved in these efforts As a result this book will provide a framework for future projects and research in this exciting and growing field

Modeling and Simulation in Science and Mathematics Education Wallace Feurzeig, Nancy Roberts, 2012-12-06 The world consists of many complex systems ranging from our own bodies to ecosystems to economic systems Despite their diversity complex systems have many structural and functional features in common that can be effectively simulated using powerful user friendly software As a result virtually anyone can explore the nature of complex systems and their dynamical behavior under a range of assumptions and conditions This ability to model dynamic systems is already having a powerful influence on teaching and studying complexity The books in this series will promote this revolution in systems thinking by integrating skills of numeracy and techniques of dynamic modeling into a variety of disciplines The unifying theme across the series will be the power and simplicity of the model building process and all books are designed to engage the reader in developing their own models for exploration of the dynamics of systems that are of interest to them Modeling Dynamic Systems does not endorse any particular modeling paradigm or software Rather the volumes in the series will emphasize simplicity of learning expressive power and the speed of execution as priorities that will facilitate deeper system understanding

Illinois Chemistry Teacher, 2003 *The Software Encyclopedia 2001*, 2001 **Teacher's Manual and Resource Guide for Exploring the Sciences** Herbert Drapkin, 1964 **Cincinnati Magazine**, 2001-08 Cincinnati Magazine taps into the DNA of the city exploring shopping dining living and culture and giving readers a ringside seat on the issues shaping the region **Working Mother**, 2003-10 The magazine that helps

career moms balance their personal and professional lives *Backpacker* ,2001-03 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 Indianapolis Monthly ,2001-12 Indianapolis Monthly is the Circle City s essential chronicle and guide an

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Indian-artifact Magazine Gary L. Fogelman,1992 **The Saturday Evening Post** ,1986 *Naturally!* ,1997 Reading textbook series organized by thematic units utilizes award winning unabridged trade book literature to teach reading and language arts competency to students grades K 6 **Discovering Computers 2007** Gary B. Shelly,Thomas J.

Cashman,Misty E. Vermaat,Jeffrey J. Quasney,2006-02 Provides a current and thorough introduction to computers by integrating usage of the World Wide Web with the printed text Updated for currency this Shelly Cashman Series text offers a complete solution to successfully teach students basic computer concepts with new exercises case studies and online tools on the Companion Web site *PC Magazine* ,2004

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