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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**



Answer Key To Student Exploration Air Track Worksheet

**Susan K. Jacobson, Mallory
McDuff, Martha Monroe**



Answer Key To Student Exploration Air Track Worksheet:

Q Tasks, 2nd Edition Koechlin, Carol, Zwaan, Sandi, 2014-10-01 Questions and questioning are key skills in successful learning. The original Q Tasks was instrumental in showing teachers how to give students the tools they need to develop their own questions and build critical thinking and inquiry skills. This new totally revised edition continues to nurture and advance these crucial skills and also offers Q task extensions that introduce digital components that facilitate collaboration and are designed to appeal to tech savvy students. More than 100 practical flexible exercises in this remarkable book provide a smorgasbord of choices for teachers to use to help students formulate good questions in an information rich environment. They put the students at the centre of their own learning as they build the library and research skills that are essential to our information age. Teachers will find innovative ways to help students go beyond memorization and rote learning of facts to focus on personal understanding and true ownership of the learning experience. Resources for Teaching Middle School Science Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-04-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them. Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8. The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards. This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers. The curriculum materials in the new guide are grouped in five chapters by scientific area: Physical Science, Life Science, Environmental Science, Earth and Space Science, and Multidisciplinary and Applied Science. They are also grouped by type: core materials, supplementary units, and science activity books. Each annotation of curriculum material includes a recommended grade level, a description of the activities involved and of what students can be expected to learn, a list of accompanying materials, a reading level, and ordering information. The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide. The criteria reflect and incorporate goals and principles of the National Science Education Standards. The annotations designate the specific content standards on which these curriculum pieces focus. In addition to the curriculum chapters, the guide contains six chapters of diverse resources that are directly relevant to middle school science. Among these is a chapter on educational software and multimedia programs, chapters on books about science and teaching, directories and guides to science trade books and periodicals for teachers and students. Another section features institutional resources. One chapter lists about 600 science centers, museums, and zoos where teachers can take middle school students for interactive science.

experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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Illinois Chemistry Teacher, 2003 The Software Encyclopedia, 1988 American Journal of Physics, 1998

Resources in Education, 1988 **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 *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 **Conservation Education and Outreach Techniques** Susan K. Jacobson, Mallory McDuff, Martha

Monroe, 2015-09-03 The conservation of biological diversity depends on people s knowledge and actions This book presents the theory and practice for creating effective education and outreach programmes for conservation The authors describe an exciting array of techniques for enhancing school resources marketing environmental messages using social media developing partnerships for conservation and designing on site programmes for parks and community centres Vivid case studies from around the world illustrate techniques and describe planning implementation and evaluation procedures enabling readers to implement their own new ideas effectively Conservation Education and Outreach Techniques now in its second edition and updated throughout includes twelve chapters illustrated with numerous photographs showing education and outreach programmes in action each incorporating an extensive bibliography Helpful text boxes provide practical tips guidelines and recommendations for further exploration of the chapter topics This book will be particularly relevant to conservation scientists resource managers environmental educators students and citizen activists It will also serve as a handy reference and a comprehensive text for a variety of natural resource and environmental professionals *Reference Books Bulletin*, 1994-1995 Sandy Whiteley, 1996 Arranged by broad subject and indexed by narrow subject by format and by title this annual publication offers an overview of the reference materials published during 1994 **Houghton Mifflin**

Math Central: Student text, 1998 **Industrial Education**, 1972 **Te HS&T 2007 Shrt Crs M** Holt Rinehart & Winston, 2007 Scientific American, 1897 *F & S Index United States Annual*, 2006 *PC Magazine*, 1987 *The Michigan Alumnus*, 1960 In v 1 8 the final number consists of the Commencement annual Teaching Science in Elementary and Middle School Classrooms Joseph S. Krajcik, Charlene Lochbihler Czerniak, Carl F. Berger, 2003 This text

provides an overview of current science teaching practices for the elementary and middle grades The authors top scholars in the field of science education believe that all children should develop an in depth and meaningful understanding of scientific concepts and processes To achieve this the text utilizes the Project Based Approach Project based science stresses that science teaching should emphasize the active engagement of students in science rather than teachers telling students information Each chapter has several Portfolio Activity boxes that provide active learning experiences or reflections for the student Like the first edition the text includes numerous strategies in each chapter that help both new and experienced teachers understand how to teach science in an active and engaging manner The text also shows teachers how to implement the National Science Education Standards NSES and constructivist strategies A NSES marginal feature keys content to the standards Moreover this textbook helps teachers learn how to implement all of today s major reforms not just read about them

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