

Student Exploration: Air Track

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?
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?
3. What two factors seem to most affect the amount of damage that occurs in a collision?

Activity A:

Momentum

Get the Gizmo ready:

- Click **Reset**.

1

1. **Explore:** The Gizmo allows you to adjust the mass and initial velocity of each glider. Set up each of the following scenarios, and describe what happens when the gliders collide.
 - A. The gliders have the same mass but different velocities.
 - B. The gliders have the same mass and one glider is stationary.
 - C. The gliders have the same speed (but moving in opposite directions) and different masses.
2. **Calculate:** An object's **momentum** (p) describes how hard it is to stop. Momentum is equal to the product of mass and velocity: $p = mv$. If mass is measured in kilograms and velocity in meters per second, the unit of momentum is kilograms-meters per second, or $\text{kg}\cdot\text{m/s}$.
 - A. What is the momentum if the mass is 1.5 kg and the velocity is 4 m/s? Turn on **Show numerical data** and use the Gizmo to check your answer.
 - B. How could you use the Gizmo to increase a glider's momentum?
3. **Gather data:** Click **Reset**. Set m_1 to 3.0 kg and v_1 to 2.0 m/s. Set m_2 to 2.0 kg and v_2 to -4.0 m/s. Fill in the left table, run the collision, and then fill in the right table.

Before collision

Glider	Glider 1	Glider 2
Mass	3.0 kg	2.0 kg
Velocity	2.0 m/s	-4.0 m/s
Momentum		

After collision

Student Exploration Air Track Teacher Guide

**Smithsonian Institution, National
Academy of Engineering, National
Science Resources Center of the
National Academy of
Sciences, Institute of Medicine**

Student Exploration Air Track Teacher Guide:

The Guidebook of Federal Resources for K-12 Mathematics and Science ,1998 Contains directories of federal agencies that promote mathematics and science education at elementary and secondary levels organized in sections by agency name national program name and state highlights by region **The GLOBE Program Teacher's Guide** ,2002 **GLOBE Program Teacher's Guide** ,1997 *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 *Using STEM-Focused Teacher Preparation Programs to Reimagine Elementary Education* Cayton, Emily,Sanders, Miriam,Williams, John A.,2024-02-07 There has been

an increasing issue in STEM education as many students lack interest and knowledge in STEM disciplines and fields. Given the high demand for STEM workers and the projected growth of STEM fields, it is important to expose students to STEM education beginning as early as elementary school. Some K-6 programs are not preparing teacher candidates adequately for STEM content or skills, especially in engineering. Integrating these disciplines and practices throughout elementary education programs could result in more exposure for K-6 students. Using STEM Focused Teacher Preparation Programs to Reimagine Elementary Education presents anecdotal stories of how elementary education programs have altered their content offerings, field experiences, and curricula to expand their teacher candidates' knowledge and exposure to STEM disciplines and fields. Covering key topics such as diversity, teacher education, and technology integration, this premier reference source is ideal for industry professionals, policymakers, administrators of K-12 education, pre-service teachers, teacher educators, researchers, scholars, academicians, practitioners, instructors, and students.

Resources for Teaching Elementary School Science

National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-03-28. What activities might a teacher use to help children explore the life cycle of butterflies? What does a science teacher need to conduct a leaf safari for students? Where can children safely enjoy hands-on experience with life in an estuary? Selecting resources to teach elementary school science can be confusing and difficult, but few decisions have greater impact on the effectiveness of science teaching. Educators will find a wealth of information and expert guidance to meet this need in *Resources for Teaching Elementary School Science*. A completely revised edition of the best-selling resource guide *Science for Children: Resources for Teachers*, this new book is an annotated guide to hands-on, inquiry-centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade. Companion volumes for middle and high school are planned. The guide annotates about 350 curriculum packages, describing the activities involved and what students learn. Each annotation lists recommended grade levels, accompanying materials, and kits or suggested equipment and ordering information. These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to ask questions and find their own answers. Experiment productively. Develop patience, persistence, and confidence in their own ability to solve real problems. The entries in the curriculum section are grouped by scientific area: Life Science, Earth Science, Physical Science, and Multidisciplinary and Applied Science, and by type: core materials, supplementary materials, and science activity books. Additionally, a section of references for teachers provides annotated listings of books about science and teaching, directories and guides to science trade books and magazines that will help teachers enhance their students' science education. *Resources for Teaching Elementary School Science* also lists, by region and state, about 600 science centers, museums, and zoos where teachers can take students for interactive science experiences. Annotations highlight almost 300 facilities that make significant efforts to help teachers. Another section describes more than 100 organizations from which teachers can obtain more resources. And a section on publishers and

suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents

Resources in Education ,2001 **The Educator's Handbook for Teaching With Primary Sources** Scott M. Waring,2023 Educators across subject areas are striving to integrate primary sources into their pedagogy and teaching Yet despite their importance to authentic disciplined inquiry the implementation of primary source activities in the pre K 12 classroom has been limited This lack of utilization can largely be attributed to the perception that these activities are too complex to design implement and grade Many teachers also feel that primary source analysis and the construction of evidence based narratives is too difficult for students to complete in the traditional classroom Waring argues that this is not the case and with this handbook provides teacher candidates and inservice teachers with detailed and specific perspectives activities approaches and resources to help them effectively and authentically use primary sources in their classrooms Book Features Introduces teaching with primary sources including detailed examples of authentic and tested instructional ideas and approaches Designed to meet the needs of classroom teachers and teacher candidates in social studies English and language arts mathematics science and other fields Offers dozens of primary sources and links to resources throughout the book Aligns to national standards frameworks and the C3 framework for social studies Can be used to meet the needs of emerging English learners and students with special needs Focuses on ways in which educators are utilizing a variety of emerging technologies to engage students in deeper and more authentic ways of learning Contributors include Peter DeCraene Lisa Fink Eric J Pyle Stefanie R Wager Sarah Westbrook and Trena L Wilkerson

The Writing Process: Teacher's guide ,1982 **Monthly Catalog of United States Government Publications** ,1993 **Monthly Catalogue, United States Public Documents** ,1993 Handbook of Teaching with Technology in Management, Leadership, and Business Stuart Allen,Kim Gower,Danielle K. Allen,2020-09-25 Ever evolving technological innovation creates both opportunities and challenges for educators aiming to achieve meaningful and effective learning in the classroom and to equip students with a well honed set of technology skills as they enter the professional world The Handbook of Teaching with Technology in Management Leadership and Business is written by experienced instructors using technology in novel and impactful ways in their undergraduate and graduate courses as well as researchers reporting and reflecting on studies and literature that can guide them on the how and why of teaching with technology

ENC Focus ,2000 **Becoming Literate in Mathematics and Science** ,2001 Everything Moon Rosemary A. Millham,2012-07 Whether you are simply curious about our mysterious neighbor the Moon or a teacher looking for ways to teach concepts about the Moon without misconceptions Everything Moon is the non technical comprehensive guide you are seeking From theories on the origin of the Moon to phases tides eclipses geology past current and future missions to the Apollo Program Everything Moon guides you through the science and history you need to understand the Moon and includes creative

engaging investigations to develop important concepts Written with teachers and students in mind Everything Moon is a book for anyone who has ever asked themselves questions about our view of the Moon what causes the same face of the Moon to face Earth every day is there really a dark side of the Moon what causes eclipses tides and phases With clear explanations images activities and examples Everything Moon will not only answer your questions about the Moon but will spark a lively interest in all things lunar

A Bibliography of Aerospace Books and Teaching Aids for Secondary School Students and Teachers National Aerospace Education Council (U.S.),1961

A Guide to Undergraduate Science Course and Laboratory Improvements National Science Foundation (U.S.). Directorate for Science Education,1979

Films and Other Materials for Projection Library of Congress,1978

Teaching Science in Diverse Classrooms Douglas B. Larkin,2025-05-29 As a distinctive voice in science education writing Douglas B Larkin provides a fresh perspective for science teachers working to make real science accessible to all K 12 students Through compelling anecdotes and vignettes this book draws on research to present a vision of successful and inspiring science teaching that builds upon the prior knowledge experiences and interests of students With empathy for the challenges faced by contemporary science teachers Teaching Science in Diverse Classrooms encourages teachers to embrace the intellectual task of engaging their students in learning science and offers an abundance of examples of what high quality science teaching for all students can look like This updated and expanded second edition includes more attention to teaching and learning science in a world changed by the pandemic and reaffirms the importance of attending to equity and justice in science classrooms Divided into four sections this book centers around the idea that the decisions made by good science teachers help light the way for their students along both familiar and unfamiliar pathways to understanding The book addresses topics and issues that occur in the daily lives and career arcs of science teachers such as Aiming for culturally relevant science teaching Eliciting and working with students ideas Reshaping school science with scientific practices Viewing science teachers as science learners Teaching science in turbulent times Grounded in the Next Generation Science Standards NGSS this is a perfect resource for both pre service and in service teachers and teacher educators that addresses the intellectual challenges of teaching science in contemporary classrooms and models how to enact effective reform based science teaching practices for all students

National Union Catalog ,1973

The book delves into Student Exploration Air Track Teacher Guide. Student Exploration Air Track Teacher Guide is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Student Exploration Air Track Teacher Guide, encompassing both the fundamentals and more intricate discussions.

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Student Exploration Air Track Teacher Guide.

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