

Student Exploration: Inclined Plane - Simple Machine

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

Jan is moving to a new apartment. She needs to load her sofa and other large furniture into a moving van. The rear of the moving van is 1.5 meters high.

1. What could Jan use to make loading furniture on the van easier?

A ramp (inclined plane)

2. Why would this help?

The slanted surface of a ramp supports the weight of the object, she would not need to directly lift it.

Gizmo Warm-up

A **simple machine** can be used to make tasks like lifting heavy weights easier. One example of a simple machine is a ramp, or **inclined plane**. You can use the *Inclined Plane – Simple Machine Gizmo™* to see how inclined planes can help to lift objects.

On the **CONTROLS** pane, make sure the **Angle** is 30° , the **Coeff. of friction** is 0.00, and the **Weight** is 300 N.



1. The brick has a weight of 300 newtons (N).

How much force would it take to lift the brick straight up?

A bit more than 300 N

2. Set the **External force** to **On**. A car appears, ready to push on the brick. Set the

Applied force to 100 N and click **Play** (▶). What happens?

The brick and car slide down the inclined plane.

3. Click **Reset** (↺). Using the Gizmo, find the smallest force that is required to push the block up the 30° ramp. What is the smallest force required?

151 N



Answer Key To Student Exploration Inclined Plane Simple Machines

Richard Moyer



Answer Key To Student Exploration Inclined Plane Simple Machines:

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

Engineering in Pre-college Settings Şenay Purzer, Johannes Strobel, Monica E. Cardella, 2014 In science technology engineering and mathematics STEM education in pre college engineering is not the silent e anymore There is an accelerated interest in teaching engineering in all grade levels Structured engineering programs are emerging in schools as well as in out of school settings Over the last ten years the number of states in the US including engineering in their K 12 standards has tripled and this trend will continue to grow with the adoption of the Next Generation Science

Standards The interest in pre college engineering education stems from three different motivations First from a workforce pipeline or pathway perspective researchers and practitioners are interested in understanding precursors influential and motivational factors and the progression of engineering thinking Second from a general societal perspective technological literacy and understanding of the role of engineering and technology is becoming increasingly important for the general populace and it is more imperative to foster this understanding from a younger age Third from a STEM integration and education perspective engineering processes are used as a context to teach science and math concepts This book addresses each of these motivations and the diverse means used to engage with them Designed to be a source of background and inspiration for researchers and practitioners alike this volume includes contributions on policy synthesis studies and research studies to catalyze and inform current efforts to improve pre college engineering education The book explores teacher learning and practices as well as how student learning occurs in both formal settings such as classrooms and informal settings such as homes and museums This volume also includes chapters on assessing design and creativity Discover! Work & Machines (eBook) Ron Simmons,Cindy Barden,2000-09-01 Activities explore the effects of simple machines Lessons focus on the concepts of force friction gravity and inertia General background information suggested activities questions for discussion and answers are included Encourage students to keep completed pages in a folder or notebook for further reference and review **Journeys-TM** J. Isaac Rajkumar, P. Yesudhas, M. Uma Maheshwari, Jyoti Swaroop, Geeta Oberoi, Vikram Mehta, Dr LC Sharma, Term Book **Colors-TM** Jyoti Swaroop, Geeta Oberoi, A Text book on Computers

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Engineering, Committee on K-12 Engineering Education, 2009-09-08 Engineering education in K 12 classrooms is a small but growing phenomenon that may have implications for engineering and also for the other STEM subjects science technology and mathematics Specifically engineering education may improve student learning and achievement in science and mathematics increase awareness of engineering and the work of engineers boost youth interest in pursuing engineering as a career and increase the technological literacy of all students The teaching of STEM subjects in U S schools must be improved in order to retain U S competitiveness in the global economy and to develop a workforce with the knowledge and skills to address technical and technological issues Engineering in K 12 Education reviews the scope and impact of engineering education today and makes several recommendations to address curriculum policy and funding issues The book also analyzes a number of K 12 engineering curricula in depth and discusses what is known from the cognitive sciences about how children learn engineering related concepts and skills Engineering in K 12 Education will serve as a reference for science technology engineering and math educators policy makers employers and others concerned about the development of the country s technical workforce The book will also prove useful to educational researchers cognitive scientists advocates for greater public understanding of engineering and those working to boost technological and scientific literacy **Harcourt Science:**

Physical science, [grade] 3, units E and F, teacher's ed ,2000 Science and Science Teaching Sharon

Sherman, Robert Scott Sherman, 2004 This core text for the K 8 methods course in science is a practical guide to teaching science in inquiry centered and standards based classrooms Its inclusive coverage of the major domains of science includes examples from the studies of life physics earth space and environment This edition integrates technology thoroughly with science content instructional methods and cues to monitoring student development

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