

# 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)

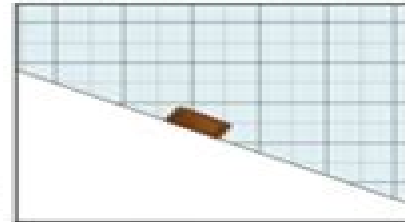
2. Why would this help?

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  $30^\circ$ , 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  $30^\circ$  ramp. What is the smallest force required?

151 N



# Answer Key To Student Exploration Inclined Plane Simple Machines

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

## **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

[Discover! Work & Machines](#) 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

**Engineering in Pre-College Settings** Şenay Purzer, Johannes Strobel, Monica E. Cardella, 2014-11-15 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

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web may 23 2022 this definition tells us that the universe is made of two things on the one hand space and time known together as space time and on the other hand matter and the different forms of energy that occupy space time the universe explained the universe contains billions of galaxies and each of these galaxies contains millions or

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web 1 there are more stars in the universe than grains of sand on all the beaches on earth that s at least a billion trillion 2 a black hole is created when big stars explode its gravitational force is so strong that nothing can escape from it luckily the closest black hole is about 10 000 light years from earth 3

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web nov 17 2023 most prominently the solutions to the equations behind einstein s theory of space time and general relativity include wormholes this theory describes the shape of the universe and how stars

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web apart from the sun the largest members of the solar system are the eight major planets nearest the sun are four fairly small rocky planets mercury venus earth and mars beyond mars is the asteroid belt a region populated by millions of rocky objects these are left overs from the formation of the planets 4 5 billion years ago

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web exoplanets are categorized by nasa as either confirmed planets whereby two or more observation methods have been used to discover the planet or nasa candidates that have not yet been confirmed currently there are over 5000 confirmed planets and over 8700 potential planets according to nasa

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web i m talking about biology chemistry geology paleontology human physiology physics astrophysics and horology reckoning of time each of these vital areas of study applies to how we go about exploring space how we design spacecraft build telescopes and drive rovers on other worlds we produced these pages for the planetary report a

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web jul 17 2019 all about the planets our solar system is home to eight amazing planets some are small and rocky others are big and gassy some are so hot that metals would melt on the surface others are freezing cold we re learning new things about our neighboring planets all the time

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web planets planets are made up of mostly the same things as stars and moons and with millions upon billions of them we believe it really is mind boggling to try and understand how many planets there are in the universe up tags celestial body in universe earth and mars exoplanets facts for kids about mercury

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web jan 19 2006 both le verrier and john adams in england had realised that an unseen planet was pulling on uranus causing it to slow down or speed up neptune turned out to be almost an identical twin of uranus it is 57 times bigger than the earth but spins quite rapidly one day lasts only 16 hours 7 minutes

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web nov 7 2023 the european space agency esa telescope which launched on july 1 on a spacex falcon 9 rocket is designed to explore the composition and evolution of the dark universe the collective name

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web nov 8 2023 scientists using nasa s james webb space telescope just made a breakthrough discovery in revealing how planets are made by observing water vapor in protoplanetary disks webb confirmed a physical process involving the drifting of ice coated solids from the outer regions of the disk into the rocky planet zone theories have long

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web nov 15 2023 contrasting data from nasa s james webb and spitzer space telescopes show change in the disk surrounding the star sz chamaeleontis sz cha in just 15 years in 2008 spitzer s detection of significant neon iii made sz cha an outlier among similar young protoplanetary disks however when webb followed up on sz cha in 2023 the