

The Ramp (and Friction) PhET Simulation Lab

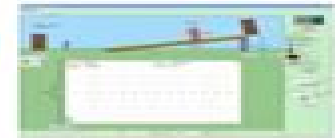
Introduction:

When an object is dragged across a horizontal surface, the force of friction that must be overcome depends on the normal force as $F_f = \mu F_n$ and the normal

force is given by $F_n = W$. When the surface becomes an inclined plane, the normal force changes and when the normal force changes, so does the friction.

In this lab, you will change the angle of an inclined plane and observe how weight is resolved into its components (F_n and $F_{\parallel}$) using the basic trig functions. $F_{\parallel}$ is the force parallel to the inclined plane. $F_{\parallel}$ is assumed to be going down the plane.

kg is a mass. To convert it to a weight you need to multiply it by the force of gravity (g). Gravity is 9.8 m/s^2 . The formula $W = mg$ is weight equals mass times gravity.



The Ramp

- Be sure to stay in the **Introduction** part of the simulation. *More features* will be used later when we investigate energy. Start by playing with the cabinet some. Have fun, really... Now...back to work.

- Move the cabinet up and down the ramp by dragging it with your mouse.
- Move the ramp to an angle of zero (horizontal) and draw a free body diagram of the cabinet here:

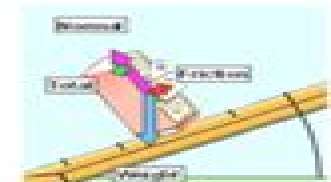
Horizontal plane

1. On a horizontal plane, the normal force is _____ to the weight.
2. The cabinet has a mass of 100kg. It therefore has a normal force of _____ N and a friction force (on the horizontal plane) of _____ $\mu = 0.30$

- **Reset** the ramp and draw a free body diagram of the cabinet in the box here:

Inclined plane

3. Before we add an applied force on the ramp, there is a force of _____ that acts against the force down the plane(Force parallel).
4. When we apply a force to get the cabinet moving, the friction force acts in the _____ direction as movement of the cabinet.
5. Slowly increase angle of the ramp until the cabinet starts to move on its own. What angle is this? _____ = θ



6. At this point, the force down the plane is _____ than the force of friction.
7. Since the ramp is now at an angle, the normal force is _____ than the weight.
8. At the angle above, the normal force equals _____ N. (Hint: Trig function)
9. At the angle above, the force down the plane equals _____ N.

$$g = 9.8 \text{ m/s}^2$$

10. Using the formula for friction above, the force of friction is _____ N.

11. If the plane-cabinet were frictionless, what angle would be required for the cabinet to move? _____ Calculate first, then test each object in the table below with the simulation on a horizontal plane.

Phet The Ramp And Friction Virtual Lab Answer Key

Emilie Sanchez



Phet The Ramp And Friction Virtual Lab Answer Key:

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web simple machines this lesson focuses on simple machines and how they can be found in many everyday items students explore the different types of simple machines how they work and how they are integrated into many items students explore common kitchen machines and identify how many simple machine types are incorporated into each item

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web design and build your own simple machine or investigate how they work while simple machines are called simple learn that they make many things happen including your bike go around simple machines are levers inclined planes ramps screws wheels axles pulleys and wedges

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web simple machines are devices which alter the direction or force of a certain object making it easier to move a simple machine makes it easier and reduces the time it takes to complete a job simple machines can help build skyscrapers or make it easy to chop vegetables there's no end to the number of uses for them

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web force simple machines simple machines since the beginning of time humans have developed devices and tools to make work easier the most notable among these are the six simple machines the inclined plane the wheel and axle the pulley the

lever the screw and the wedge table of contents what is a simple machine the inclined plane

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web feb 9 2019 providing experiences for children to ideate and test solutions supports the application of their knowledge about simple machines how can you create physical spaces and a classroom culture in your classroom that promote prototyping testing and problem solving with simple machines below are some examples of simple

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web the machines they build today started off with the basics which are known as simple machines simple machines are defined as the simplest mechanisms that use mechanical advantage to multiply force these machines have either few or no moving parts and use energy to work this term is usually referred to the six classical simple machines

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web how to teach an engaging simple machines unit simple machines seem simple but many students may not have access to touch play and envision how they work or combine to form complex machinery to overcome this

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web mar 29 2023 simple machines essay simple machines are discussed in this essay as they are an important aspect of our everyday lives these devices have the ability to apply force making work easier by allowing us to push or pull over increased distances