

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 $F_n = F_g$. 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_g) using the basic trig functions.

**The Ramp****Procedure:** Play with the Sims \Rightarrow Physics \Rightarrow Motion \Rightarrow The Ramp **Run Now!**

- 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:

- On a horizontal plane, the normal force is _____ to the weight.
- 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:

- The force down the plane and normal force are components of _____.
- Before we add an applied force on the ramp, there is a force of _____ that acts against the force down the plane (Force parallel).

- When we apply a force to get the cabinet moving, the friction force acts in the _____ direction as movement of the cabinet.

- Slowly** increase angle (0.1 degrees at a time) of the ramp until the cabinet starts to move on its own. What angle is this? _____ = θ

- At this point, the force down the plane is _____ than the force of friction.

- Since the ramp is now at an angle, the normal force is _____ than the weight.

- At the angle above, the normal force equals _____ N. (hint: what trig function?)

- At the angle above, the force down the plane equals _____ N. (trig function?)

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

- If the plane-cabinet were frictionless, what angle would be required for the cabinet to move?

- Why? _____

Calculate first, then test each object in the table below with the simulation on a horizontal plane.

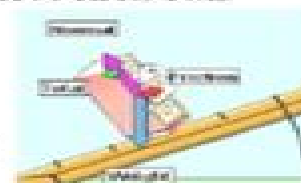
Object Mass Weight Normal Force μ , Coef of Friction Friction Force to Overcome

Dog				0.10	
Crate				0.70	
Piano				0.40	
Refrigerator				0.50	

Conclusion Calculations:**GRADED**

Horizontal plane

Inclined plane


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

Ramp Forces And Motion Phet Lab Answers Worksheet

O García



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