

## 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.  $F_f$  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  $9.8 \text{ m/s}^2$ . 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

- 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:

Inclined plane

- 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 of the ramp until the cabinet starts to move on its own. What angle is this? \_\_\_\_\_ =  $\theta$



- 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: Trig function)
- At the angle above, the force down the plane equals \_\_\_\_\_ N.
- Using the formula for friction above, the force of friction is \_\_\_\_\_ N.

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

- 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 Lab Answer Key

**R Bogdan**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Phet The Ramp Lab Answer Key:**

The Top Books of the Year Phet The Ramp Lab Answer Key The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and gripping novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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