#### 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  $F_f = \mu F_s$ , 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

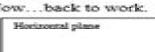


The Ramp

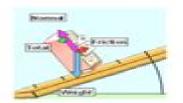
weight is resolved into its components ( $F_n$  and  $F_n$ ) using the basic trig functions.  $F_n$  is the force parallel to the inclined plane.  $F_n$  is assumed to be going down the plane.

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<sup>2</sup> The formula W= mg is weight equals mass times gravity.

- Be sure to stay in the 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.
- Reset the ramp and draw a free body diagram of the cabinet in the box here:
- Before we add an applied force on the ramp, there is a force of \_\_\_\_\_\_ that acts against the force down the <u>plane( Force</u> 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? \_\_\_\_\_ = 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: 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.
- 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 <u>horizontal</u> plane.







g = 9.8m/s²

# **Phet The Ramp Answer Key**

Hongru Du

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

Cars, Ramps, Photogates: An Integrated Approach to Teaching Linear Equations (Teachers Edition) Gregory Lakey, 2019-08-07 Mathematics can be very boring Passing out mundane worksheets that do not bridge connections is a waste of time As mathematics educators we struggle to find projects or activities that engage students this is one that does I currently start this project on the first day of school every year Students have always enjoyed manipulating the cars ramps or photogates to gather the data needed The way this project integrates Algebra 1 Algebra 2 and Statistics has been great with regards to the connections made Where students have previously struggled with seeing how different content or subjects tie together they are able to do so throughout the duration of this curriculum Take your time with this project please read throughout it use the resources I provided and just enjoy it I have fun with this project every year and I know you will too P S A Car and Ramp set must be purchased for this curriculum to be effective Mr Gregory P Lakey Show, Tell, Build Joyce W. Nutta, Carine Strebel, Florin M. Mihai, Edwidge Crevecoeur Bryant, Kouider Mokhtari, 2020-07-29 Building upon the theoretical and practical foundation outlined in their previous book Educating English Learners the authors show classroom teachers how to develop a repertoire of instructional techniques that address K 12 English learners ELs at different English proficiency and grade levels and across subject areas Show Tell Build is organized around two decision maps for planning and implementing differentiated instruction for ELs the Academic Subjects Protocol for teachers of academic subjects and the Language Arts Protocol for teachers of language arts The instructional tools and techniques described in each chapter help teachers provide communication support for ELs through showing and telling and develop their language proficiency through building their skills The book also discusses the demands that academic language poses for ELs and ways to assess students proficiency in English Show Tell Build provides classroom teachers English language development specialists literacy coaches and school leaders with valuable knowledge and skills to support ELs academic success The Hindu Weekly Review, 1958

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