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

Horizontal plane

weight is resolved into its components (F_n and F_n) using the basic trig functions. F_{n-1n} the force parallel to the inclined plane. F_{n-1n} 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/s² 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



- 6. 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.
- S. At the angle above, the normal force equals ______N. (Hint: Trig function)

g = 9.8m/s²

- 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 horizontal plane.

Friction Lab Answer Key

R Pring

Friction Lab Answer Key:

Decoding Friction Lab Answer Key: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Friction Lab Answer Key**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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Table of Contents Friction Lab Answer Key

- 1. Understanding the eBook Friction Lab Answer Key
 - The Rise of Digital Reading Friction Lab Answer Key
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Friction Lab Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Friction Lab Answer Key
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Friction Lab Answer Key
 - Personalized Recommendations
 - Friction Lab Answer Key User Reviews and Ratings
 - Friction Lab Answer Key and Bestseller Lists

- 5. Accessing Friction Lab Answer Key Free and Paid eBooks
 - Friction Lab Answer Key Public Domain eBooks
 - Friction Lab Answer Key eBook Subscription Services
 - Friction Lab Answer Key Budget-Friendly Options
- 6. Navigating Friction Lab Answer Key eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Friction Lab Answer Key Compatibility with Devices
 - Friction Lab Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Friction Lab Answer Key
 - Highlighting and Note-Taking Friction Lab Answer Key
 - Interactive Elements Friction Lab Answer Key
- 8. Staying Engaged with Friction Lab Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Friction Lab Answer Key
- 9. Balancing eBooks and Physical Books Friction Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Friction Lab Answer Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Friction Lab Answer Key
 - Setting Reading Goals Friction Lab Answer Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Friction Lab Answer Key
 - Fact-Checking eBook Content of Friction Lab Answer Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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