

Ramp: Forces and Motion PhET Simulation

Name: _____

Learning objectives:

- Write an effective, testable hypothesis.
- To experimentally determine the relationship between the mass of an object and how far it slides from the bottom of a ramp.
- To experimentally determine the relationship between the angle of a ramp and how far an object slides from the bottom of a ramp.
- To confirm the experimentally determined relationship with a theoretical derivation.

Directions:

1. Go to the iPhET simulation Ramp: Forces and Motion and click "Run Now". You will place a crate at the top of a ramp and let it slide down. The simulation is at <http://phet.colorado.edu/en/simulation/ramp-forces-and-motion>. Set $\mu_s=0.5$, $\mu_k=0.3$, $g=9.8\text{m/s}^2$.
2. Explore the Ramp: Forces and Motion simulation with your partner. As you explore, talk about what you find with your partner.
3. Click "Show" on the Free Body Diagram. Push the filing cabinet back and forth while looking at the free body diagram. What makes the arrows change in length and direction?
4. What changes when you switch between ice and wood as you push the Filing Cabinet back and forth?
5. How does the angle of the ramp change the length and direction of the arrows in the Free Body Diagram?



Phet Simulation Ramp Work Sheet

S Ben Porath

Phet Simulation Ramp Work Sheet:

Whispering the Techniques of Language: An Psychological Journey through **Phet Simulation Ramp Work Sheet**

In a digitally-driven world wherever monitors reign great and instant conversation drowns out the subtleties of language, the profound techniques and mental nuances concealed within phrases often get unheard. Yet, situated within the pages of **Phet Simulation Ramp Work Sheet** a charming fictional prize pulsing with fresh emotions, lies an extraordinary journey waiting to be undertaken. Composed by an experienced wordsmith, this enchanting opus invites viewers on an introspective trip, softly unraveling the veiled truths and profound impact resonating within the very material of every word. Within the emotional depths of this poignant evaluation, we can embark upon a sincere exploration of the book's core subjects, dissect their captivating publishing model, and succumb to the strong resonance it evokes heavy within the recesses of readers' hearts.

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