

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 PhET 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 $\mu_k=0.5$, $\mu_s=0.3$, $g=9.8\text{m/s}^2$.
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 The Ramp Answers

**Peter Lindenfeld, Suzanne White
Brahmia**



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