

In this lab, you will analyze energy transfer between gravitational potential energy, kinetic energy, and dissipated energy (thermal energy in this sim) as a skate boarder rides inside a half-pipe.

**Pre-Lab**

Define the following:

1. Gravitational Potential Energy ( $E_g$ )
2. Kinetic Energy ( $E_k$ )
3. Dissipated Energy ( $E_{diss}$ )

**Part A – No Friction**

1. Open the Energy Skate Park Basics PhET simulation as instructed in class.
2. Check the Bar Graph option on the right of the simulation.
3. Click on the skateboarder, place him on the track at the top of the half-pipe, and let him go. Click the slow-motion option at the bottom to make things easier to follow.
4. As the skateboarder rides back and forth...
  - a. Describe how the potential energy changes.
  - b. Describe how the kinetic energy changes.
  - c. Describe how the total energy changes.
5. Now click the Pie Chart option on the right of the simulation and observe the pie chart as the skateboarder rides back and forth.
  - a. What does the total size of the pie represent?
6. Now check the Grid option on the right of the simulation. As the height of the skateboarder changes...
  - a. Describe how the potential energy changes.
  - b. Describe how the kinetic energy changes.
7. Now check the Speed option on the right of the simulation and observe the speedometer. As the speed changes...
  - a. Describe how the potential energy changes.
  - b. Describe how the kinetic energy changes.

# Intro To Energy Model Phet Lab Answers

**K Morrison**



## **Intro To Energy Model Phet Lab Answers:**

**Teaching and Learning Online** Franklin S. Allaire, Jennifer E. Killham, 2023-01-10 Teaching and Learning Online Science for Elementary Grade Levels explores the challenges of teaching science virtually It includes sections on frameworks teacher journeys and lesson plans aligned with Next Generation Science Standards offering tips resources and discussion questions for educators and students *Fuel for Thought* Steve Metz, 2011 The concept of energy is central to all the science disciplines seamlessly connecting science technology and mathematics For high school and upper middle school teachers this compendium comprises inquiry based activities lesson plans and case studies designed to help teach increased awareness of energy environmental concepts and the related issues *Matter and Energy*, 2005

## **Intro To Energy Model Phet Lab Answers** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Intro To Energy Model Phet Lab Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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