

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

Sabine Zange



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