

Download File PDF The Skate Park Intro To Energy And Work Phet Lab Answers

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Name: _____ Physics
Hour: _____ Unit 4 Week 3
Lab 4.3
Energy Skate Park II

Introduction:
In this lab, you will use the PhET Simulation: Energy Skate Park --to explore the relationships among kinetic, potential, and total energy as well as the relationships between energy and height.

Objectives:

- SWBAT state the relationships among kinetic, potential, and total energy.
- SWBAT state the relationship between height and kinetic, potential, and total energy.

Directions:

1. Turn On the 'Grid.'
2. Turn On the 'Energy v. Position' Graph

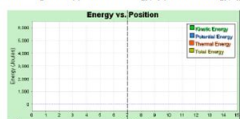
Experiment One: Up and Down, Up and Down...
In this experiment, you will test the relationships between kinetic, potential, and total energy in the simple case of a half pipe.

Hypothesis:

1. As potential energy decreases, kinetic energy: _____
Decreases Remains the Same Increases
because _____
2. As potential energy decreases, total energy: _____
Decreases Remains the Same Increases
because _____

Procedure:

1. Draw the 'Energy v. Position' Graph.
Label the following lines: (1) Potential Energy, (2) Kinetic Energy, (3) Total Energy



2. Identify the relationship between the following:
a. Potential and Kinetic Energy _____
b. Potential and Total Energy _____

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