



## The Skate Basic Park - Intro to Energy Potential and Kinetic PhET Lab

### Introduction:

When Tony Hawk wants to launch himself as high as possible off the half-pipe, how does he achieve this? The skate park is an excellent example of the **conservation of energy**. The law of conservation of energy tells us that we can never create or destroy energy, but we can change its form. In this lab, we will look at the conversion of energy between *gravitational-potential* energy, work, and *kinetic* (or moving) energy.



Energy Skate Park:  
Basics

Use the internet, your textbook, or notes to define the following key terms:

**Kinetic Energy** \_Kinetic energy is the energy that a body possesses by virtue of being in

**Potential Energy** \_Potential energy is the energy possessed by a body by virtue of its position to others, stresses within itself, electric charge, and other factors.\_

**Mechanical Energy** \_Mechanical energy is the sum of kinetic and potential energy in an object used to do work.\_

**Joule** \_A joule is the SI unit of a work or energy, equal to the work done by a force of one when its point of application moves one meter in the direction of action of the force, equivalent to one 3600<sup>th</sup> of a watt-hour.\_

State, in **your own words**, the **Law of the Conversation of Energy**. \_The amount of energy in a certain system will always be constant. This implies that energy is never created or destroyed, but simply reformed.\_



motion\_  
relative  
that is  
newton

**Procedure:** *PhET Simulations* → *Play With Sims* → *Physics* → *Energy Skate Park: Basics*

**Run Skater**

Take some time and play with the skater. Turn on the **Bar Graph**, **Pie Chart**, and **Speed** options.

How does increasing skater's mass change the skater's...

**Kinetic Energy?** \_An increase in mass causes kinetic energy to increase when the skater is in motion.\_ **Potential Energy?** \_An increase in mass also causes the potential energy to rise when the skater isn't in motion.\_ **Total Energy?** \_An increase in mass causes the total energy of the skater to increase as well.\_

How does the skater's **kinetic energy** change as he moves **down** the ramp? \_Yes: the skater's Kinetic energy starts off low and as he moves down the ramp, gaining speed, it rises.\_

How does the skater's **kinetic energy** change as he moves **up** the ramp? \_Since he is losing speed—thus losing motion—his kinetic energy decreases while he experiences an increase in potential energy.\_

How does the skater's **potential energy** change as he moves **down** the ramp? \_As the skater moves down the ramp his kinetic energy rises. Since energy cannot be created or destroyed, the potential energy must convert to accommodate for this new form of energy. In response, potential energy decreases.\_

How does the skater's **potential energy** change as he moves **up** the ramp? \_Likewise, to accommodate for the new change in energy, Potential energy rises since the Kinetic energy lowers.\_

How does the skater's **total energy** change as he moves **down** the ramp? \_Total energy remains constant.\_

How does the skater's **total energy** change as he moves **up** the ramp? \_Total energy remains constant.\_

Describe the skater's **kinetic energy** at the bottom of the ramp. \_At the bottom of the ramp, the skater's kinetic energy is at its highest point.\_

Describe the skater's **potential energy** at the bottom of the ramp. \_At the bottom of the half-pipe, the skater's potential energy is at its lowest point.\_



What happens when the skater is dropped onto the ramp from above the ramp? \_The amount of total energy increases, thus causing the skater to experience higher levels of potential and kinetic energy at their relative points. Along with this, the skater also gains thermal energy from the friction at the drop point.\_

# Phet Skate Park Questions Answers

**Peter Lindenfeld, Suzanne White  
Brahmia**



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