

Energy Skate Park Activity

Name: _____ Date: _____ Class: _____

Open your browser and go to

<https://phet.colorado.edu/en/simulation/energy-skate-park-basics>

or search for **PhET** Energy Skate Park Basics on Google.

1. Start with the intro. Click the box for a pie graph. When placing the skater at the top of a hill, what kind of energy do they have?

- a. Kinetic Energy
- b. Potential Energy
- c. Thermal Energy
- d. Electrical Energy



2. Once the skater reaches the bottom of the hill, what kind of energy do they have?

- a. Kinetic Energy
- b. Potential Energy
- c. Thermal Energy
- d. Electrical Energy

3. Check the box in the upper right that says "Show Pie Graph".

At the top of the ramp.

At the bottom of the ramp.

- a. Halfway between the top and the bottom.

4. Increase the skater's mass. Does it change the results?

- a. Yes
- b. No

5. In real life, the skater would not be able to reach the top of the hill. Why? (What kind of energy of the skater will eventually turn into heat?)

- a. Kinetic Energy
- b. Potential Energy



Answer Key To Simulation Energy Skate Park

Mike Jess

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Mike Jess'.

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