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## Skateboard Physics Lab – Part 1 (1 of 3)

**Vocabulary:** Give a very brief description of the following terms.

- kinetic energy (KE): \_\_\_\_\_
- gravitational potential energy (PE): \_\_\_\_\_
- thermal energy: \_\_\_\_\_
- mechanical energy: \_\_\_\_\_
- conservation of energy: \_\_\_\_\_

1. As the skate park opens on your screen, observe the movements of the skater in the half pipe.

- Does the skater reach the same height on the opposite sides of the track? \_\_\_\_\_
- Where does he move the fastest? \_\_\_\_\_
- What do the pause and step buttons do (under the skater screen)? \_\_\_\_\_
- What do the blue dots on the track allow you to do? \_\_\_\_\_
- Grab a piece of track and add it to the exiting track. Manipulate the old and new sections to become familiar with the construction techniques.

2. Turn on the energy Pie Chart, Energy vs. Position Graph, and Bar Graph. (You may need to move things around a little to see everything.)

- On all three visual aids, what colors represent potential energy, kinetic energy, and total energy? \_\_\_\_\_
- On the Energy vs. Position Graph, what is the total energy of the skater? \_\_\_\_\_ J
- Where does the skater have the largest kinetic energy and the largest potential energy? \_\_\_\_\_
- It should be clear on the Energy-Position and Bar Graph that the Total Energy is really the Mechanical Energy, which is the sum of the \_\_\_\_\_ and \_\_\_\_\_ energies.

3. Reset the simulation: Display the grid, potential energy reference, and the bar graph. The potential energy (PE) reference level is at ground level. Move the PE reference while the skater is moving and answer the following questions.

- As the PE reference level is moved, does the motion of the skater change? \_\_\_\_\_
- In the bar graph, what happens to the total energy as the PE reference level is raised? \_\_\_\_\_
- Raise the PE reference to get zero total energy.
  - As the skater moves down the slope, is the PE positive or negative? \_\_\_\_\_
  - As the skater moves down the slope, is the KE positive or negative? \_\_\_\_\_
- Using the Energy vs. Position Graph, what is the maximum KE of the skater? \_\_\_\_\_
  - Does the KE part of the graph change as the PE reference changes? \_\_\_\_\_
  - Does the maximum change in PE change as the PE reference is moved? \_\_\_\_\_

# Skateboard Physics Lab Report Answers Tesccc

**PT Brinkman**



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## Skateboard Physics Lab Report Answers Tesccc Book Review: Unveiling the Power of Words

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