Concept Question
As she skates down the track, will her energy increase, decrease, or stay the same?

Lab
Design an experiment to determine the relationship between kinetic energy and speed.

Group Work
Share your findings from lab. Identify evidence that could be used for each claim.

Homework
Explore adding friction. Describe how friction changes the skater’s motion and energy.

Thinking Like STEM Experts
Founded in 2002 by Nobel Laureate Carl Wieman, the PhET Interactive Simulations project at the University of Colorado Boulder provides over 130 free interactive math and science simulations that are based on extensive education research and support effective and engaging STEM education. Going beyond traditional educational resources, PhET sims offer an intuitive, game-like environment where students can learn through scientist-like exploration, where dynamic visual representations make the invisible visible, and where science ideas are connected to real-world phenomena. PhET sims are used in more than 200 countries and territories (over 5000 translated across 78 languages).