Energy Skate Park: Basics
The Law of Conservation of Energy
Part Three

1. **Hit the "Reset All" button.** If you were to place the skater at the 5 meter mark, how high will the skater go on the other side of the track? Try it to confirm your prediction.
2. How does the skater's **kinetic** energy change as he moves **down** the ramp?
3. How does the skater's **kinetic** energy change as he moves **up** the ramp?
4. How does the skater's **potential** energy change as he moves **down** the ramp?
5. How does the skater's **potential** energy change as he moves **up** the ramp?
6. How does the skater's **total** energy change as he moves **down** the ramp?
7. How does the skater's **total** energy change as he moves **up** the ramp?
8. Describe the skater's **kinetic** energy **at the bottom** of the ramp.
9. Describe the skater's **potential** energy **at the bottom** of the ramp.
10. What happens when **the skater is dropped onto the ramp** from above? (Hint: look at the bar graph.)
11. What happens to the **total energy** when **the skater is dropped onto the ramp** from above? (Again, look at the bar graph.)