Energy Skate Park

*Directions: Answer all questions in complete sentences.*

1. What is kinetic energy? What is thermal energy? What is potential energy?
2. How is potential energy shown in this model?
3. What is the difference in the energy change in the three different tracks?

**Change the mass of the skater.**

1. How does the skater having a greater mass impact the change in energy?
2. How does the skater having less mass impact the change in energy?

**Now, use the tab at the top to change the amount of friction. Add LOTS of friction.**

1. How does the friction impact the change in energy?

**Now create your own track, play with the tracks and see how the energy changes.**

1. Summarize energy change and how the various factors impact each kind energy.