Build-a-Park….you know like build-a-bear…..
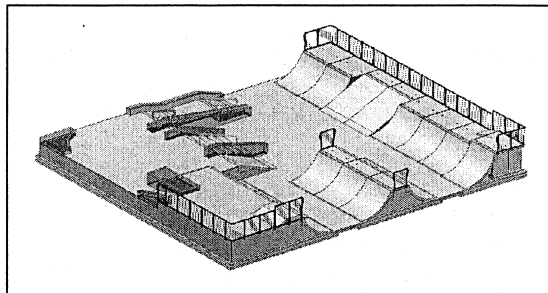
You just hired to design a skate park for your community. Your park needs to be fun and exciting, yet safe. There should be at least 3 different features in your park. The challenge is to ensure your features are safe, and that your skaters will not fly off the ramps. To design your park we will use the PhET Simulation "Energy Skate Park" Make sure you have friction turned on, as there is friction in the real world. (In the coefficient of friction box set the slider to the right of the second line right of the none side). Have fun designing!!!

1. When you've finished designing your park take a screen shot with the snip-it tool or some other screen-grabbing tool. Open up the paint program and open your screen shot.

2. On your sketch in number 1, label all the point or points of maximum kinetic energy in red, and the point or points of minimum kinetic energy in blue.

3. On your sketch in number 1, label all the point or points of maximum potential energy in green and minimum potential energy in orange.

4. Also on your sketch, label all points where kinetic energy is exactly equal to potential energy in pink.

5. How does the potential energy relate to the kinetic energy at these points you labeled?

6. Identify 3 variables or factors you had to consider when making your features?