Visualizing Physics using

***Energy-Bar Diagrams***

1. First, let’s play with **“Energy Skate Park”** using PHET Simulation!
2. Begin with a simple experiment….



1. Use energy-bar diagrams to develop the conservation of energy expression

from A to B



1. Develop the energy conservation expression for the Xtreme Flyer at Canada’s Wonderland (see link below)

Xtreme Skyflyer [Canadas Wonderland July 2009] High Definition [720p] Watching

http://www.youtube.com/watch?v=J07ijKTFeDU&feature=related

1. Develop the conservation of energy expression from A to B for the following situation



1. Two boxes are connected by a rope over a light, frictionless pulley. Use the conservation of energyto determine the speed at which the 15 kg box strikes the floor. The boxes are released from rest.

