AMUSEMENT PARK CHALLENGE
Virtual Lab

Step One:
• Go to my website, worksheets page and click on the hyperlink for the below website

http://www.learner.org/exhibits/parkphysics/

Step Two:
• Read the “Introductory page”.
• Click on “The Roller Coaster” button.
• Read this section and answer the questions below.

  1. A roller coaster doesn’t have any engine. What drives the roller coaster?

  2. What is the difference in a wooden or steel coaster?

Step Three:
• Click on “Roller Coaster History”.
• Read this section and answer the questions below.

  1. How did Russians start the idea of the roller coaster?

  2. What events make modern day roller coasters exciting?
**Step Four:**
- Return to the “Introduction Page” and at the bottom, click on “Ride Safety”.
- Read this section and answer the questions below.

1. What are the statistics of death of a roller coaster?

2. What percentage of visitors go to the emergency room for injuries on roller coasters?

3. What is the major cause of death or injury on a roller coaster? How does the amusement park prevent these incidents?

**Step Five:**
- After reading about how roller coasters work and their history, it’s time for you to make your own coaster and play!

**Step Six:**
- After playing with the roller coaster tubing please fill in the diagram below labeling where on the coaster the most and least amount of potential and kinetic energy are.