

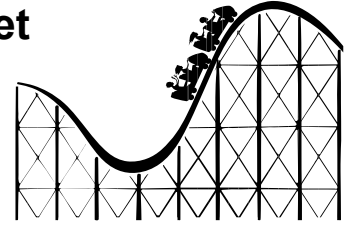
Name:

Date:

Class:

Engineering Design: Build a Roller Coaster Worksheet

Iteration #1: Use the space below to design your roller coaster. Label the parts of your diagram with a "p", where the **potential energy** is high. Label parts of the diagram with a "k" where the **kinetic energy** is high.



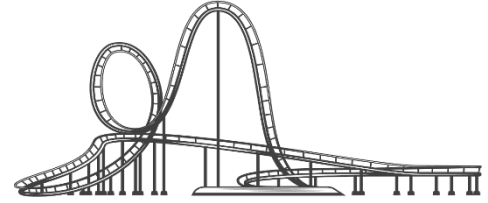
Name:

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Iteration #1 Reflection

1. Were you successful in getting your ball to travel throughout your entire roller coaster unassisted? Why or why not?



2. How long did it take your ball to travel through your roller coaster (in seconds)? _____

3. What caused your ball to stop?

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Re-design: Iteration #2

Create a second design incorporating things that you would do differently from the first iteration. If your design and build were successful during the first iteration, your challenge would be to incorporate a loop in your design and build this time around.

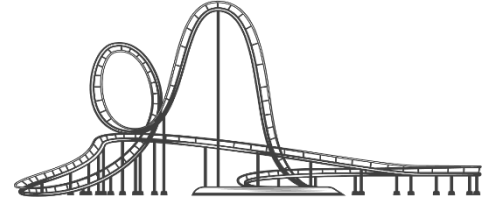
Name:

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Iteration #2 Reflection

1. Were you successful in getting your ball to travel throughout your entire roller coaster unassisted? Why or why not?



2. How long did it take your ball to travel through your roller coaster (in seconds)? _____

3. What caused your ball to stop?
