

Roller Coaster Project

Part 1

Asking the Question and Defining the Problem

The Problems:

1. To design and build a roller coaster from paper towel and foam insulation tubes that will sustain multiple "rides", and that will hold up as the number of passengers increases.
2. To determine the effect that the number of passengers has on the speed of a roller coaster.

The Question:

How does the number of riders on a roller coaster affect the speed that it can achieve?

Another way to say this is: " As you increase the mass of an object rolling downhill, does it affect the overall speed that can be achieved?"

