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## Student Exploration: Roller Coaster Physics

**Vocabulary:** friction, gravitational potential energy, kinetic energy, momentum



**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.) Sally gets onto the roller coaster car, a bit nervous already. Her heart beats faster as the car slowly goes up the first long, steep hill.

1. What happens at the beginning of every roller coaster ride?

The roller coaster goes up the first (the largest) hill.

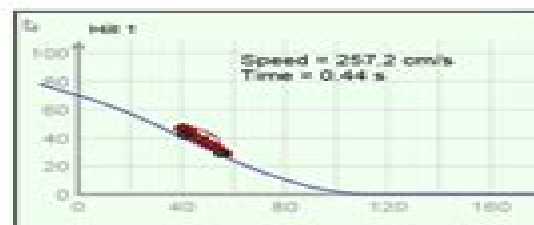
2. Does the roller coaster ever get higher than the first hill? No


Explain. No the first hill always has to be the highest or else the roller coaster will not complete the full length.

### Gizmo Warm-up

The *Roller Coaster Physics* Gizmo models a roller coaster with a toy car on a track that leads to an egg. You can change the track or the car. For the first experiment, use the default settings (Hill 1 = 70 cm, Hill 2 = 0 cm, Hill 3 = 0 cm, 35-g car).

1. Press **Play** () to roll the 35-gram toy car down the track. Does the car break the egg? No



2. Click **Reset** (). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg? Yes
3. Click **Reset**. Lower **Hill 1** back to 70 cm and select the 50-gram toy car. Click **Play**. Does the 50-gram car break the egg? Yes
4. What factors seem to determine whether the car will break the egg? The main factors that determine whether or not the egg breaks is the height of hill and the weight of the car. This is because the higher the hill, the higher the potential mechanical energy there is, causing a bigger and stronger on the egg.

# Roller Coaster Physics Exploration Sheet Answers

**Xiaolong Qi**



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