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Date: December 14th 2021

# 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.

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

Explain. No the first hill always has the 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).

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



- Click Reset ( ). Set Hill 1 to 80 cm, and click Play. Does the car break the egg? Yes.
- 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.



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**JR Anderson** 

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