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Date:

Student Exploration: Roller Coaster Physics

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



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?

You gain momentum.

2. Does the roller coaster ever get higher than the first hill? **No**
Explain. It would not have enough momentum to get higher than the first hill.

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).

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



1. Click **Reset** (). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg? **Yes**
2. 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**.
3. What factors seem to determine whether the car will break the egg?
The height of the hill and the weight of the car.

Activity A:
Roller coaster speed

Get the Gizmo ready:

- Click **Reset**.
- Select the 35-g toy car.



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