



Name:

Adam

Date:

## Student Exploration: Roller Coaster Physics

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

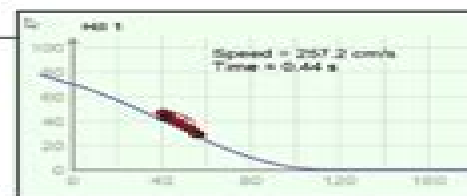
You either start by going up a hill and then down or start at the top of a hill.

2. Does the roller coaster ever get higher than the first hill? Explain.

No. The rollercoaster usually goes over smaller and smaller hills.

### 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?
2. Click **Reset** (↺). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg?
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?
4. What factors seem to determine whether the car will break the egg?

mass and height.

No

Yes

Yes

# Roller Coaster Physics Gizmo Answer Key

**Chao Zhang**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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