



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?

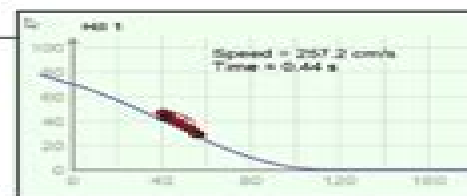
You either start by going up a hill and then down or start at the top of a hill.

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).



- Press **Play** (▶) to roll the 35-gram toy car down the track. Does the car break the egg?
- Click **Reset** (↺). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg?
- 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?
- What factors seem to determine whether the car will break the egg?

mass and height.

No

Yes

Yes

# Roller Coaster Physics Gizmo Answer Key

**Xiang Xie**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name Xiang Xie.

## **Roller Coaster Physics Gizmo Answer Key:**

Immerse yourself in the artistry of words with is expressive creation, Discover the Artistry of **Roller Coaster Physics Gizmo Answer Key** . This ebook, presented in a PDF format ( PDF Size: \*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

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
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