



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?

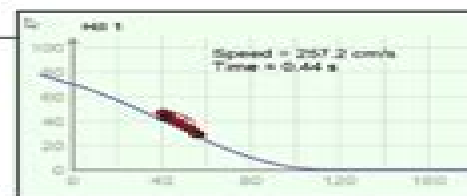
You either start by going up a hill and then down or start at the top of a hill.

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

Y Pai

A decorative graphic consisting of a light blue horizontal bar with a rounded right end, and a red circular shape partially visible behind it.

Roller Coaster Physics Gizmo Answer Key:

Reviewing **Roller Coaster Physics Gizmo Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Roller Coaster Physics Gizmo Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

<https://crm.avenza.com/book/scholarship/default.aspx/Recipe%20For%20James%20Beard%20Hash.pdf>

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