



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?

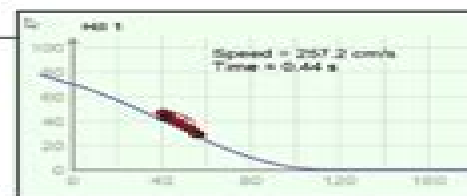
You either start by going up a hill and then down or start at the top of a hill.

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.

# Roller Coaster Physics Gizmo Answer Key

**Kathleen Armour**

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

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## **Table of Contents Roller Coaster Physics Gizmo Answer Key**

1. Understanding the eBook Roller Coaster Physics Gizmo Answer Key
  - The Rise of Digital Reading Roller Coaster Physics Gizmo Answer Key
  - Advantages of eBooks Over Traditional Books
2. Identifying Roller Coaster Physics Gizmo Answer Key
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Roller Coaster Physics Gizmo Answer Key
  - User-Friendly Interface
4. Exploring eBook Recommendations from Roller Coaster Physics Gizmo Answer Key
  - Personalized Recommendations
  - Roller Coaster Physics Gizmo Answer Key User Reviews and Ratings
  - Roller Coaster Physics Gizmo Answer Key and Bestseller Lists
5. Accessing Roller Coaster Physics Gizmo Answer Key Free and Paid eBooks

- Roller Coaster Physics Gizmo Answer Key Public Domain eBooks
- Roller Coaster Physics Gizmo Answer Key eBook Subscription Services
- Roller Coaster Physics Gizmo Answer Key Budget-Friendly Options
- 6. Navigating Roller Coaster Physics Gizmo Answer Key eBook Formats
  - ePub, PDF, MOBI, and More
  - Roller Coaster Physics Gizmo Answer Key Compatibility with Devices
  - Roller Coaster Physics Gizmo Answer Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Roller Coaster Physics Gizmo Answer Key
  - Highlighting and Note-Taking Roller Coaster Physics Gizmo Answer Key
  - Interactive Elements Roller Coaster Physics Gizmo Answer Key
- 8. Staying Engaged with Roller Coaster Physics Gizmo Answer Key
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Roller Coaster Physics Gizmo Answer Key
- 9. Balancing eBooks and Physical Books Roller Coaster Physics Gizmo Answer Key
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Roller Coaster Physics Gizmo Answer Key
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Roller Coaster Physics Gizmo Answer Key
  - Setting Reading Goals Roller Coaster Physics Gizmo Answer Key
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Roller Coaster Physics Gizmo Answer Key
  - Fact-Checking eBook Content of Roller Coaster Physics Gizmo Answer Key
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

### 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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