

Name: **Kailee Green**

Date: **February 1st**

Format all responses in **blue bold font**.

Student Exploration: Roller Coaster Physics

Vocabulary (refer to vocab file located on the Gizmo site for definitions): 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 go up a very large hill and then go down it.
2. Does the roller coaster ever get higher than the first hill?
Explain.

No because any hill higher than the first one will cause

deceleration.

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?

It touches it but does not break it.

2. Click **Reset** (↺). Set Hill 1 to 80 cm, and click **Play**. Does the car break the egg? __
Yes.

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?

Yes

4. What factors seem to determine whether the car will break the egg?

The weight of the car and the height of the hill.



Roller Coaster Physics Gizmo Answers

JE Gale



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Roller Coaster Physics Tom Wayne,1998 This section of the Physics Pavilion will discuss some of the principles involved in the design of a roller coaster It is intended for the middle or high school teacher Physics students may find the information helpful as well Many of the concepts can be applied to topics other than roller coasters Home page *K'nex Roller Coaster Physics* ,

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Table of Contents Roller Coaster Physics Gizmo Answers

1. Understanding the eBook Roller Coaster Physics Gizmo Answers
 - The Rise of Digital Reading Roller Coaster Physics Gizmo Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Roller Coaster Physics Gizmo Answers
 - 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 Answers
 - User-Friendly Interface

4. Exploring eBook Recommendations from Roller Coaster Physics Gizmo Answers
 - Personalized Recommendations
 - Roller Coaster Physics Gizmo Answers User Reviews and Ratings
 - Roller Coaster Physics Gizmo Answers and Bestseller Lists
5. Accessing Roller Coaster Physics Gizmo Answers Free and Paid eBooks
 - Roller Coaster Physics Gizmo Answers Public Domain eBooks
 - Roller Coaster Physics Gizmo Answers eBook Subscription Services
 - Roller Coaster Physics Gizmo Answers Budget-Friendly Options
6. Navigating Roller Coaster Physics Gizmo Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Roller Coaster Physics Gizmo Answers Compatibility with Devices
 - Roller Coaster Physics Gizmo Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Roller Coaster Physics Gizmo Answers
 - Highlighting and Note-Taking Roller Coaster Physics Gizmo Answers
 - Interactive Elements Roller Coaster Physics Gizmo Answers
8. Staying Engaged with Roller Coaster Physics Gizmo Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Roller Coaster Physics Gizmo Answers
9. Balancing eBooks and Physical Books Roller Coaster Physics Gizmo Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Roller Coaster Physics Gizmo Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Roller Coaster Physics Gizmo Answers
 - Setting Reading Goals Roller Coaster Physics Gizmo Answers
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Roller Coaster Physics Gizmo Answers
 - Fact-Checking eBook Content of Roller Coaster Physics Gizmo Answers
 - 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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