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Date:

Student Exploration: Roller Coaster Physics

Vocabulary: friction, gravitational potential energy, kinetic energy, momentum, velocity



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?

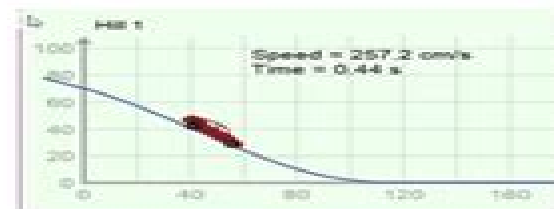
You gain momentum.

2. Does the roller coaster ever get higher than the first hill? **No**
Explain. It would not have enough momentum to get higher than the first hill.

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).

- A. Press **Play** () to roll the 35-gram toy car down the track. Does the car break the egg? **No**

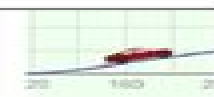


1. Click **Reset** (). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg? **Yes**
2. Click **Reset**. Lower **Hill 1** back to 70 cm and select the 50-gram toy car. Click **Play**. Does the 50-gram car break the egg? **Yes**.
3. What factors seem to determine whether the car will break the egg?
The height of the hill and the weight of the car.

Activity A:
Roller coaster speed

Get the Gizmo ready:

- Click **Reset**.
- Select the 35-g toy car.



Answer To Student Exploration Roller Coaster Physics

Michael Brown



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Table of Contents Answer To Student Exploration Roller Coaster Physics

1. Understanding the eBook Answer To Student Exploration Roller Coaster Physics
 - The Rise of Digital Reading Answer To Student Exploration Roller Coaster Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Answer To Student Exploration Roller Coaster Physics
 - 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 Answer To Student Exploration Roller Coaster Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answer To Student Exploration Roller Coaster Physics
 - Personalized Recommendations
 - Answer To Student Exploration Roller Coaster Physics User Reviews and Ratings
 - Answer To Student Exploration Roller Coaster Physics and Bestseller Lists
5. Accessing Answer To Student Exploration Roller Coaster Physics Free and Paid eBooks
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 - Answer To Student Exploration Roller Coaster Physics eBook Subscription Services
 - Answer To Student Exploration Roller Coaster Physics Budget-Friendly Options
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 - Answer To Student Exploration Roller Coaster Physics Compatibility with Devices
 - Answer To Student Exploration Roller Coaster Physics Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Answer To Student Exploration Roller Coaster Physics
 - Highlighting and Note-Taking Answer To Student Exploration Roller Coaster Physics
 - Interactive Elements Answer To Student Exploration Roller Coaster Physics
 8. Staying Engaged with Answer To Student Exploration Roller Coaster Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answer To Student Exploration Roller Coaster Physics
 9. Balancing eBooks and Physical Books Answer To Student Exploration Roller Coaster Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answer To Student Exploration Roller Coaster Physics
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Answer To Student Exploration Roller Coaster Physics
 - Setting Reading Goals Answer To Student Exploration Roller Coaster Physics
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Answer To Student Exploration Roller Coaster Physics
 - Fact-Checking eBook Content of Answer To Student Exploration Roller Coaster Physics
 - 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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