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Student Exploration: Roller Coaster Physics

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?

The roller coaster goes up the first (the largest) hill.

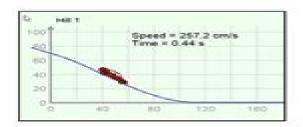
Does the roller coaster ever get higher than the first hill? No

Explain. No the first hill always has the be the highest or else the roller coaster will not complete the full length.

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? No



- Click Reset (2). Set Hill 1 to 80 cm, and click Play. Does the car break the egg? Yes.
- 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 main factors that determine whether or not the egg breaks is the height of hill and the weight of the car. This is because—the higher the hill, the higher the potential mechanical energy there is, causing a bigger and stronger on the egg.



Exploration Sheet Answer Key Roller Coaster Physics

Nathan A. Unterman

Exploration Sheet Answer Key Roller Coaster Physics:

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Table of Contents Exploration Sheet Answer Key Roller Coaster Physics

- 1. Understanding the eBook Exploration Sheet Answer Key Roller Coaster Physics
 - The Rise of Digital Reading Exploration Sheet Answer Key Roller Coaster Physics
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Exploration Sheet Answer Key Roller Coaster Physics
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - $\circ \ \ Determining \ Your \ Reading \ Goals$
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Exploration Sheet Answer Key Roller Coaster Physics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Exploration Sheet Answer Key Roller Coaster Physics
 - Personalized Recommendations

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