

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.**

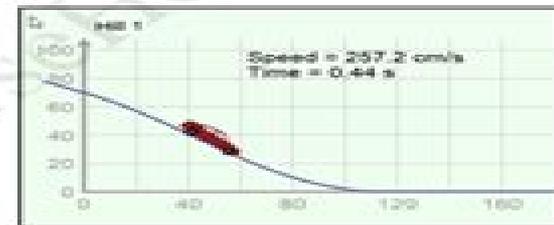
2. Click **Reset** (↺). Set Hill 1 to 80 cm, and click **Play**. Does the car break the egg? **Yes.**

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 Answer Sheet

**K Morrison**



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

1. Understanding the eBook Roller Coaster Physics Gizmo Answer Sheet
  - The Rise of Digital Reading Roller Coaster Physics Gizmo Answer Sheet
  - Advantages of eBooks Over Traditional Books
2. Identifying Roller Coaster Physics Gizmo Answer Sheet
  - 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 Sheet
  - User-Friendly Interface
4. Exploring eBook Recommendations from Roller Coaster Physics Gizmo Answer Sheet
  - Personalized Recommendations
  - Roller Coaster Physics Gizmo Answer Sheet User Reviews and Ratings
  - Roller Coaster Physics Gizmo Answer Sheet and Bestseller Lists

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