

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

**R Bogdan**

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

## **Roller Coaster Physics Gizmo Answers:**

The book delves into Roller Coaster Physics Gizmo Answers. Roller Coaster Physics Gizmo Answers is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Roller Coaster Physics Gizmo Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Roller Coaster Physics Gizmo Answers
  - Chapter 2: Essential Elements of Roller Coaster Physics Gizmo Answers
  - Chapter 3: Roller Coaster Physics Gizmo Answers in Everyday Life
  - Chapter 4: Roller Coaster Physics Gizmo Answers in Specific Contexts
  - Chapter 5: Conclusion
2. In chapter 1, the author will provide an overview of Roller Coaster Physics Gizmo Answers. The first chapter will explore what Roller Coaster Physics Gizmo Answers is, why Roller Coaster Physics Gizmo Answers is vital, and how to effectively learn about Roller Coaster Physics Gizmo Answers.
3. In chapter 2, the author will delve into the foundational concepts of Roller Coaster Physics Gizmo Answers. This chapter will elucidate the essential principles that must be understood to grasp Roller Coaster Physics Gizmo Answers in its entirety.
4. In chapter 3, the author will examine the practical applications of Roller Coaster Physics Gizmo Answers in daily life. The third chapter will showcase real-world examples of how Roller Coaster Physics Gizmo Answers can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Roller Coaster Physics Gizmo Answers in specific contexts. This chapter will explore how Roller Coaster Physics Gizmo Answers is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Roller Coaster Physics Gizmo Answers. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Roller Coaster Physics Gizmo Answers.

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