



Name: Adam

Date:                     

## Student Exploration: Roller Coaster Physics

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

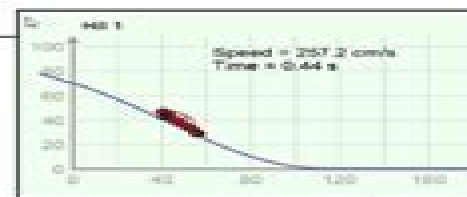
You either start by going up a hill and then down or start at the top of a hill.

2. Does the roller coaster ever get higher than the first hill? Explain.

No. The rollercoaster usually goes over smaller and smaller hills.

### 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?
2. Click **Reset** (↺). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg?
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?
4. What factors seem to determine whether the car will break the egg?

mass and height.

No

Yes

Yes

# Roller Coaster Physics Gizmo Answer Key

**RJ Alexander**

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

## **Roller Coaster Physics Gizmo Answer Key:**

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

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

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### **Roller Coaster Physics Gizmo Answer Key Introduction**

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