

**Activity B:**  
**Energy on a roller coaster**

**Get the Gizmo ready:**

- Click **Reset**. Select the 50-g car.
- Check that the Coefficient of friction is 0.00.
- Set HSB 1 to 100 cm, and HSB 2 and 3 to 0 cm.



**Question:** How does energy change on a moving roller coaster?

1. **Observe:** Turn on **Show graph** and select **E vs t** to see a graph of energy (E) versus time. Click **Play** and observe the graph as the car goes down the track.

Does the total energy of the car change as it goes down the hill? yes, it doesn't

2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set HSB 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- A. What happens to potential energy as the car goes down the hill? it goes down
- B. What happens to potential energy as the car goes up the hill? it goes up

3. **Experiment:** The **kinetic energy** (K) of a car describes its energy of motion. Click **Reset**. Select the **K vs t** (kinetic energy vs. time) graph, and click **Play**.

- A. What happens to kinetic energy as the car goes down the hill? it goes up
- B. What happens to kinetic energy as the car goes up the hill? it goes down

4. **Compare:** Click **Reset**. Set HSB 1 to 60 cm, HSB 2 to 60 cm, and HSB 3 to 70 cm. Be sure the 50-g toy car is selected, and press **Play**. Sketch the **U vs t**, **K vs t**, and **E vs t** graphs below.



5. **Draw conclusions:** How are potential energy, kinetic energy, and total energy related?  
when potential goes up kinetic goes down

(Activity B continued on next page)

# Roller Coaster Gizmo Answer Key

**Lei Shi**

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

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

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

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

<https://crm.avenza.com/public/detail/Documents/sample%20parent%20retention%20appeal%20letter.pdf>

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