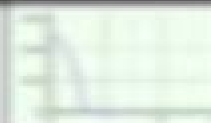


Activity B:
Energy on a roller coaster

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

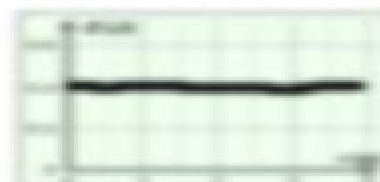
2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set HSB 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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

Daniel F McAuley

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 Gizmo Answer Key:

The book delves into Roller Coaster Gizmo Answer Key. Roller Coaster Gizmo Answer Key is a vital 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 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, this book will provide an overview of Roller Coaster Gizmo Answer Key. The first 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, the author will delve into the foundational concepts of Roller Coaster Gizmo Answer Key. The second chapter will elucidate the essential principles that need to 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. The third chapter will showcase real-world examples of how Roller Coaster Gizmo Answer Key can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Roller Coaster Gizmo Answer Key in specific contexts. This 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.

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 Gizmo Answer Key.

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