

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? no, it doesn't

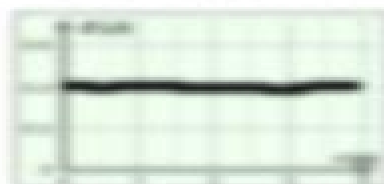
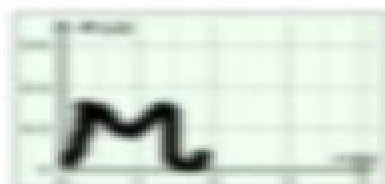
2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set HSB 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- What happens to potential energy as the car goes down the hill? it goes down
- 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**.

- What happens to kinetic energy as the car goes down the hill? it goes up
- 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)

Answer Key Weston Walch Roller Coaster

Nathan A. Unterman



Answer Key Weston Walch Roller Coaster:

Amusement Park Physics Nathan A. Unterman, 2001 How many physics texts have a chapter titled Spin and Barf Rides But then how many physics texts calculate the average acceleration during roller coaster rides Or establish the maximum velocity of a Tilt a Whirl Amusement Park Physics is a unique and immensely popular book that investigates force acceleration friction and Newton s Laws through labs that use popular amusement park rides Includes a detailed field trip planner formulas answer key and more Using the Internet to Investigate Algebra Walter Sherwood, 2000 *El-Hi Textbooks & Serials in Print, 2005* ,2005 El-Hi Textbooks & Serials in Print Bowker Editorial Staff, 2004-02

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

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key Weston Walch Roller Coaster
 - Chapter 2: Essential Elements of Answer Key Weston Walch Roller Coaster
 - Chapter 3: Answer Key Weston Walch Roller Coaster in Everyday Life
 - Chapter 4: Answer Key Weston Walch Roller Coaster in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, the author will delve into the foundational concepts of Answer Key Weston Walch Roller Coaster. This chapter will elucidate the essential principles that must be understood to grasp Answer Key Weston Walch Roller Coaster in its entirety.
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 6. In chapter 5, the author will draw a conclusion about Answer Key Weston Walch Roller Coaster. 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 Answer Key Weston Walch Roller Coaster.

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