

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

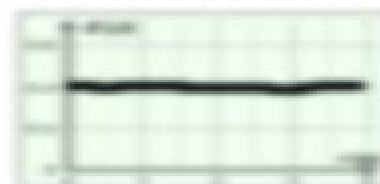
2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set HSB 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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 Physics Answer Guide

AN Whitehead



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Table of Contents Roller Coaster Physics Answer Guide

1. Understanding the eBook Roller Coaster Physics Answer Guide
 - The Rise of Digital Reading Roller Coaster Physics Answer Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Roller Coaster Physics Answer Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Roller Coaster Physics Answer Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Roller Coaster Physics Answer Guide

- Personalized Recommendations
- Roller Coaster Physics Answer Guide User Reviews and Ratings
- Roller Coaster Physics Answer Guide and Bestseller Lists
- 5. Accessing Roller Coaster Physics Answer Guide Free and Paid eBooks
 - Roller Coaster Physics Answer Guide Public Domain eBooks
 - Roller Coaster Physics Answer Guide eBook Subscription Services
 - Roller Coaster Physics Answer Guide Budget-Friendly Options
- 6. Navigating Roller Coaster Physics Answer Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Roller Coaster Physics Answer Guide Compatibility with Devices
 - Roller Coaster Physics Answer Guide Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Roller Coaster Physics Answer Guide
 - Highlighting and Note-Taking Roller Coaster Physics Answer Guide
 - Interactive Elements Roller Coaster Physics Answer Guide
- 8. Staying Engaged with Roller Coaster Physics Answer Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Roller Coaster Physics Answer Guide
- 9. Balancing eBooks and Physical Books Roller Coaster Physics Answer Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Roller Coaster Physics Answer Guide
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Roller Coaster Physics Answer Guide
 - Setting Reading Goals Roller Coaster Physics Answer Guide
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Roller Coaster Physics Answer Guide

- Fact-Checking eBook Content of Roller Coaster Physics Answer Guide
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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