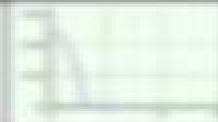


Activity 8:
Energy on a roller coaster

Get the Gizmo ready:

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



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

1. **Display:** 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 decreases.

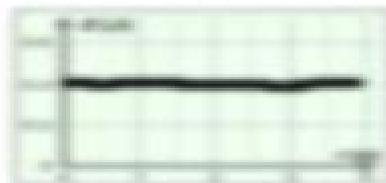
2. **Display:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set Hill 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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. **Display:** 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. **Display:** Click **Reset**. Set Hill 1 to 60 cm, Hill 2 to 60 cm, and Hill 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 8 continued on next page)

Explore Learning Roller Coaster Physics Answer Key

K Morrison



Explore Learning Roller Coaster Physics Answer Key:

University Physics: Australian edition Hugh D Young, Roger A Freedman, Ragbir Bhathal, 2010-08-04 This book is the product of more than half a century of leadership and innovation in physics education When the first edition of University Physics by Francis W Sears and Mark W Zemansky was published in 1949 it was revolutionary among calculus based physics textbooks in its emphasis on the fundamental principles of physics and how to apply them The success of University Physics with generations of several million students and educators around the world is a testament to the merits of this approach and to the many innovations it has introduced subsequently In preparing this First Australian SI edition our aim was to create a text that is the future of Physics Education in Australia We have further enhanced and developed University Physics to assimilate the best ideas from education research with enhanced problem solving instruction pioneering visual and conceptual pedagogy the first systematically enhanced problems and the most pedagogically proven and widely used online homework and tutorial system in the world Mastering Physics [Oswaal ISC 10 Sample Question Papers Class 12 \(Set of 5 Books\) Physics, Chemistry, Biology, English Paper 1 & 2 For 2025 Board Exam \(Based On The Latest CISCE/ICSE Specimen Paper\)](#) Oswaal Editorial Board, 2024-09-09 Description of the product Fresh Relevant with the Latest ICSE Specimen Paper 2025 Score Boosting Insights with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 5 Solved 5 Self Assessment Papers with Hints Online Courses with Oswaal 360 Courses and sample Papers to enrich the learning journey further Strictly as per the Latest Syllabus Specimen Paper 2025 Issued by CISCE Includes Competency Focused questions based on Bloom s Taxonomy Create Evaluate Analyse Apply Understand and Remember Official Marking Scheme Decoded *Current Index to Journals in Education*, 2002

Exploring Osaka David M. Dunfield, 1993 A comprehensive English language guide to the city of Osaka for business travellers and tourists alike Second only to Tokyo as a banking and trade centre of Japan Osaka is a centre of tradition and culture as well the home of bunraku puppet theatre for example and is minutes by rail from Japan s ancient capitals of Kyoto and Nara A variety of suggested sightseeing itineraries are included as well as recommended museums restaurants and hotels a list of festival dates and sources of additional information [Announcer](#) American Association of Physics Teachers, 2003

The Utne Reader, 1995 *New York Magazine*, 1997-06-23 New York magazine was born in 1968 after a run as an insert of the New York Herald Tribune and quickly made a place for itself as the trusted resource for readers across the country With award winning writing and photography covering everything from politics and food to theater and fashion the magazine s consistent mission has been to reflect back to its audience the energy and excitement of the city itself while celebrating New York as both a place and an idea **Bowker's Directory of Videocassettes for Children 1999** R R Bowker Publishing, Bowker, 1999-03 *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

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