

**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

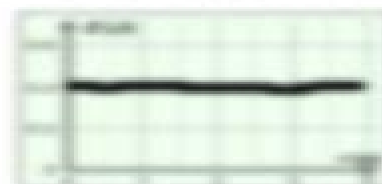
2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set HSB 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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

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Kinard**



## Roller Coaster Physics Answer Guide:

**Student Solutions Manual for Tipler and Mosca's Physics for Scientists and Engineers, Sixth Edition: Chapters 1-20** Todd Ruskell, 2008      **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      **Minds-on Physics** William J. Leonard, Robert J. Dufresne, William J. Gerace, Jose P. Mestre, 1999 Activities The MOP activities all have the same basic structure Purpose and Expected Outcome In this section we tell students the specific concepts principles and other ideas that will be raised and addressed during the activity This section also tells students what they are expected to learn Prior Experience Knowledge Needed first list for students the concepts and principles they should know or be familiar with before attempting the activity Then if necessary we provide any additional background needed to do the activity Main Activity contains the specific questions and problems that probe students understanding and prepare them to make sense out of the ideas Reflection Main Activity students re examine their answers to look for patterns They are also asked to generalize abstract and relate concepts to the situations they have studied      **Minds-on Physics: Advanced topics in mechanics** William J. Leonard, 1999  
E-physics Iv Tm (science and Technology)' 2003 Ed. ,      **Minds-on Physics: Complex systems** William J. Leonard, 1999  
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provided for teachers and lecturers evaluating a range of different formats for varying class sizes Features suggests numerous entertaining puzzles designed to motivate students to think about framing and solving unstructured problems discusses models for student engagement setting up puzzle clubs hosting a puzzle competition and warm up activities presents an overview of effective teaching approaches used in Puzzle based Learning covering a variety of class activities assignment settings and assessment strategies examines the issues involved in framing a problem and reviews a range of problem solving strategies contains tips for teachers and notes on common student pitfalls throughout the text provides a collection of puzzle sets for use during a Puzzle based Learning event including puzzles that require probabilistic reasoning and logic and geometry puzzles

**Informal Mathematics and Science Education**, 1998 *Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers*, by Serway Raymond A. Serway, Steven Van Wyk, 1996

*Complete Solutions Manual to Accompany Fundamentals of Physics, Fifth Edition [by] David Halliday, Robert Resnick, Jearl Walker: Chapters 1-21* Jerry J. Shi, 1997 Minds-on Physics: Motion William J. Leonard, 1999 There is one Teacher's

Guide which corresponds with each Student Activities Book and consists of two parts Answers and Instructional Aids for Teachers and Answer Sheets The Answers and Instructional Aids for Teachers provides advice for how to optimize the effectiveness of the activities as well as brief explanations and comments on each question in the student activities The Answer Sheets may be duplicated and distributed to students as desired Use of the Answer Sheets is particularly recommended for activities requiring a lot of graphing or drawing *How Everything Works* Louis A. Bloomfield, 2006-04-21 By explaining the physics behind ordinary objects this book unravels the mysteries of how things work Using familiar examples from everyday life and modern technology this book explains the seemingly inexplicable phenomena we encounter all around us As it examines everything from roller coasters to radio musical instruments to makeup and knuckleballs to nuclear weapons *How Everything Works* provides the answers to such questions as why the sky is blue why metal is a problem in microwave ovens and why some clothes require dry cleaning With fascinating and fun real life examples that provide the answers to scores of questions *How Everything Works* is nothing short of a user's manual to our everyday world

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