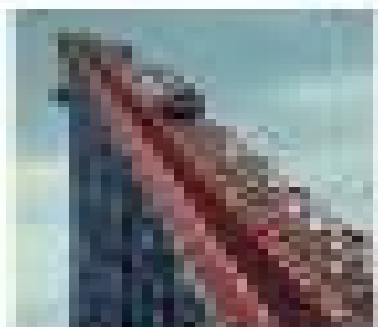




Student Exploration: Roller Coaster Physics

ocabulary Kinetic energy, potential energy, velocity, acceleration, momentum



What Do You Already Know? (Use the Gizmo HELP tab, or ask your teacher.)
 How, if any, can the roller coaster's speed change? What forces cause the roller coaster to change speed? How, if any, can the roller coaster's direction change? What forces cause the roller coaster to change direction?

1. When the roller coaster is at the top of the first hill, what is its speed? _____

What is the roller coaster's potential energy at the top of the first hill? _____

2. How does the roller coaster's speed change as it goes down the first hill? _____

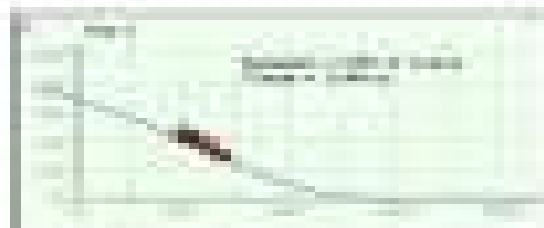
Explain. _____
 What forces cause the roller coaster's speed to change? _____

Roller coaster physics

The Physics of Roller Coasters Gizmo is an interactive simulation that allows you to explore the physics of roller coasters. It is a great way to learn about the forces that act on a roller coaster car as it moves along the track. The simulation includes a variety of features, such as the ability to adjust the car's mass, the track's height, and the car's initial speed. You can also view the car's position, velocity, and acceleration at any time.

3. What is the roller coaster's speed at the top of the first hill? _____
 How does the roller coaster's speed change as it goes down the first hill? _____

4. What is the roller coaster's speed at the bottom of the first hill? _____



Roller Coaster Physics Answer Guide

Daniel F McAuley



Roller Coaster Physics Answer Guide:

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 **Lm Ol Physics Revision Guide , Learning Physics 8 Solution Book (Year 2023-24)** ,2024-01-02 *Study Guide and Student Solutions Manual for Wilson College Physics* David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics **Learning Physics 7 Solution Book (Year 2023-24)** ,2024-01-02

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