

Student Exploration: Roller Coaster Physics

Vocabulary: friction, gravitational potential energy, kinetic energy, conservation



Draw Knowledge Questions (the three BIG QUESTIONS) using the Gizmo. (Each gets asked after the roller coaster runs, with answers already.) Note: Most Questions asked as the car slowly goes up the first large roller-coaster.

1. What happens at the beginning of every roller coaster ride?
The car is pushed up to being full.

2. Describe roller coaster track going higher than the first drop? No.

Answer:

The roller coaster track can't go higher than the first full because the total energy of the roller coaster doesn't increase during riding.

Warm Up

The Roller Coaster Physics Gizmo models a roller coaster with a toy car on a track that leads to an egg. The main design line leads to the egg. For the first experiment, use the default settings (Roll = 1.00 cm, Fall = 0.00 cm, Height = 0.00 cm, 100 g car).

1. Click Play. The 100-g toy car goes down the track. Does the car break the egg? No

2. Click Reset. Set Roll = 1.00 cm, Fall = 0.00 cm, and play. Does the car break the egg? No

3. Click Reset. Change Fall = 1.00 cm and play the 100-g toy car. Does Play. Does the 100-g toy car break the egg? No



Roller Coaster Physics Exploration Sheet Answer Key

Clifford Lane



Roller Coaster Physics Exploration Sheet Answer Key:

Complete Sourcebook on Children's Software ,1999

The School Science Review ,2005

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

Uncover the mysteries within Explore with is enigmatic creation, **Roller Coaster Physics Exploration Sheet Answer Key** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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