

Student Exploration: Roller Coaster Physics

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



Draw Knowledge Questions (the three BIG ONEs) using the Gizmo. (Each gets onto the roller coaster car, with maximum velocity) How much does the car's velocity gain up the first drop? (about 100 m/s)

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

2. Describe roller coaster cars going faster than the first drop? (100 m/s)

Answer:

The roller coaster doesn't go faster than the first drop because the total energy of the roller coaster doesn't increase. (about 100 m/s)

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 (mass = 1 kg, height = 10 m, height = 10 m, 100 g/s).

1. Click Play. The 1 kg car goes down the track. Does the car break the egg? (No)

2. Click Reset. Set mass to 2 kg, height to 10 m, and click Play. Does the car break the egg? (Yes)

3. Click Reset. Lower height to 5 m and click the 100 g/s car. Click Play. Does the 100 g/s car break the egg? (No)



Roller Coaster Physics Exploration Sheet Answer Key

Michal Rosen-Zvi

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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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

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