

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: These Questions ask the car slowly going 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 track? No.

Given:

The roller coaster track is higher than the first track 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 time track on the left. 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. → I drop the 100-gram car down the track. Does the car break the egg? No

2. Click Reset. → I set Roll = 0.50 cm, and click Play. Does the car break the egg? No

3. Click Reset. I set Fall = 0.00 cm and click the 100-gram car. Click Play. Does the 100-gram car break the egg? No



Roller Coaster Physics Exploration Sheet Answer Key

Nathan A. Unterman



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Complete Sourcebook on Children's Software, 1999 **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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