

# 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 Coaster tracks as they are usually given up the first loop, then down.

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 loop? Why?

Answer:

The roller coaster track is higher than the first loop because the total energy of the roller coaster doesn't increase, making energy.

**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 rule is to get the car off the first loop. Use the default settings (Roll = 1.00 cm, Fall = 0.00 cm, Push = 0.00 cm, 100 g car).



1. Click Play. → [Click the 100-grm toy car down the track. Does the car break the egg? No]
2. Click Reset. [→] [Set Fall] to 50 cm, and click Play. Does the car break the egg? Yes]
3. Click Reset. [Click Fall] back to 100 cm and click the 100-grm toy car. Click Play. Does the 100-grm car break the egg? No]



# Roller Coaster Physics Exploration Sheet Answer Key

**K Payea**



## **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

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