

# 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 as the first drop starts?

1. What happens at the beginning of every roller coaster ride?  
The car is pushed up to being full.
2. Does the roller coaster ever go higher than the first drop? No.

**Given:**

The roller coaster doesn't go higher than the first drop because the total energy of the roller coaster doesn't increase during the ride.

**Given:** 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 = 100 kg, Hill 1 = 10 cm, Hill 2 = 0 cm, Hill 3 = 0 cm, 100 g egg).

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

2. Click Reset. → Click Hill 1 to 20 cm, and click Play. Does the car break the egg? Yes.

3. Click Reset. Click Hill 1 back to 10 cm and click the 100-g toy car. Click Play. Does the 100-g toy car break the egg? No.



# Roller Coaster Physics Exploration Sheet Answer Key

**Nathan A. Unterman**



## **Roller Coaster Physics Exploration Sheet Answer Key:**

**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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