

# 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 time track on the left. For the first experiment, use the default settings (Roll = 1.00 cm, Fall = 1.00 cm, Push = 1.00 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 = 1.00 cm, and click Play. Does the car break the egg? Yes.

3. Click Reset. I set Fall = 1.00 cm and click the 100-gram car. Click Play. Does the 100-gram car break the egg? Yes.



# Roller Coaster Physics Exploration Sheet Answer Key

**Michael Brown**

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.

## **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

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