

# 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 car. For the first experiment, use the default settings (Roll = 1.00 cm, Fall = 1.00 cm, Fall = 1.00 cm, 100 g car).

1. Click Play. → The car goes 100 cm down the track. Does the car break the egg? No.

2. Click Reset. → Set Roll = 1.00 cm, and click Play. Does the car break the egg? No.

3. Click Reset. Click Fall = 1.00 cm and click Play. Does the car break the egg? No.



# Roller Coaster Physics Exploration Sheet Answer Key

**Huangqi Zhang**

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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