

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 are then answered every time you go up the first loop, roller coaster.

1. What happens at the beginning of every roller coaster ride?
The car starts by going up to being full.

2. Describe roller coaster from going higher than the first loop? No.

Answer:

The roller coaster cannot go higher than the first loop because the total energy of the roller coaster cannot increase without adding 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 time track on the unit. For this first experiment, use the default settings (Roll = 1.00 cm, Mass = 1.00 cm, Height = 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? No

3. Click Reset. I set Roll = 1.00 cm and speed 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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