

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 by you after you've gone up the first large roller coaster.

1. What happens at the beginning of every roller coaster ride?
The car is pushed up to being full.
2. Describe roller coaster track geometry from the highest hill.

Answer:

The roller coaster track is higher than the first hill because the total energy of the roller coaster doesn't decrease during the ride.

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 (hill 1 = 10 cm, hill 2 = 0 cm, hill 3 = 0 cm, 100 g car).

1. Click Play. → [Click the 100-gram car down 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-gram car. Click Play. Does the 100-gram car break the egg? No



Roller Coaster Physics Exploration Sheet Answer Key

CL Gary



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