

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 one free roller coaster run, with maximum velocity.) Note: Most Coaster tracks as they are usually given up the first loop, then down.

1. What happens at the beginning of every roller coaster ride?
The car is pushed up to being full.
2. Describe roller coaster track going faster than the first loop? No.

Given:

The roller coaster track is higher than the first loop 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 rule is to get the car off the first loop. Use the default settings (Mass = 100 kg, Hill 1 = 10 cm, Hill 2 = 10 cm, Hill 3 = 10 cm, 100 g egg).



1. Click Play. → The egg breaks the egg? No.
2. Click Reset. → The egg breaks the egg? No.
3. Click Reset. → The egg breaks the egg? No.



Roller Coaster Physics Exploration Sheet Answer Key

Nathan A. Unterman



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