

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: Most Questions asked as the car slowly goes 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 going higher than the first drop? No.

Answer:

The roller coaster track can't go higher than the first full because the total energy of the roller coaster doesn't increase during 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 line leads to the egg. For the first experiment, use the default settings (Roll = 1.00 cm, Fall = 1.00 cm, Mass = 100 g).

1. Click Play. The 100-g toy car goes down the track. Does the car break the egg? No.

2. Click Reset. Set Roll = 1.00 cm, Fall = 1.00 cm, and Mass = 100 g. Click Play. Does the car break the egg? No.

3. Click Reset. Change Fall = 1.00 cm and Mass = 100 g. Click Play. Does the 100-g toy car break the egg? No.



Roller Coaster Physics Exploration Sheet Answer Key

Joacim Rocklöv



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