

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 up the first drop? (about 100 m/s)

1. What happens at the beginning of every roller coaster ride?
The car is pushed up to the top.

2. Describe roller coaster cars going faster than the first drop? (100 m/s)

Answer:

The roller coaster doesn't go faster than the first drop because the total energy of the roller coaster doesn't increase. (about 100 m/s)

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 100-g 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 click Play. Does the car break the egg? **No**

3. Click Reset. Change Roll = 1.00 cm and click the 100-g car. Click Play. Does the 100-g car break the egg? **No**



Roller Coaster Physics Exploration Sheet Answer Key

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