Names

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Diate:

10/25/22

Student Exploration: Roller Coaster Physics

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: friction, gravitational potential energy, kinetic energy, momentum



Prior Knowledge Questions (Do these BEFORE using the Gizmo.)
Sally gets onto the roller coaster car, a bit nervous already. Her heart beats faster as the car slowly goes up the first long, steep hill.

What happens at the beginning of every roller coaster ride?

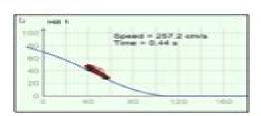
It starts to go up the first drop

Does the roller coaster ever get higher than the first hill? Explain.

no this is the highest point so that the roller coaster has enough energy to go through the rest of the ride.

Gizmo Warm-up

The Roller Coaster Physics Gizmo models a roller coaster with a toy car on a track that leads to an egg. You can change the track or the car. For the first experiment, use the default settings (Hill 1 = 70 cm, Hill 3 = 0 cm, 35-g car).



- 1. Press Play () to roll the 35-gram toy car down the track. Does the car break the egg?
- Click Reset (2). Set Hill 1 to 80 cm, and click Play. Does the car break the egg?
- Click Reset. Lower Hill 1 back to 70 cm and select the 50-gram toy car. Click Play. Does the 50-gram car break the egg?
- 4. What factors seem to determine whether the car will break the egg?

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ML Morrison

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