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?

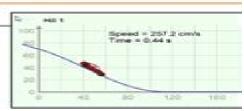
You either start by going up a hill and then down or start at the top of a hill.

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

No. The rollercoaster usually goes over smaller and smaller hills.

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).



- 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?
- s Yes

No Yes

4. What factors seem to determine whether the car will break the egg?

mass and height.

Roller Coaster Physics Gizmo Answer Key

Nathan A. Unterman

Roller Coaster Physics Gizmo Answer Key:

Amusement Park Physics Nathan A. Unterman, 2001 How many physics texts have a chapter titled Spin and Barf Rides But then how many physics texts calculate the average acceleration during roller coaster rides Or establish the maximum velocity of a Tilt a Whirl Amusement Park Physics is a unique and immensely popular book that investigates force acceleration friction and Newton's Laws through labs that use popular amusement park rides Includes a detailed field trip planner formulas answer key and more K'nex Roller Coaster Physics,

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