Student Exploration: Roller Coaster Physics

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



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.

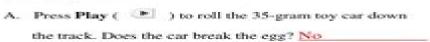
1. What happens at the beginning of every roller coaster ride?

You gain momentum.

 Does the roller coaster ever get higher than the first hill? No Explain. It would not have enough momentum to get higher than the first hill.

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 2 = 0 cm, Hill 3 = 0 cm, 35-g car).



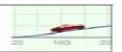


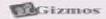
- Click Reset (). Set Hill 1 to 80 cm, and click Play. Does the car break the egg? Yes
- Click Reset. Lower Hill 1 back to 70 cm and select the 50-gram toy car. Click Play. Doesthe 50-

gram car break the egg? Yes.

What factors seem to determine whether the car will break the egg?The height of the hill and the weight of the care.

Activity A:	Get the Gizmo ready:
Roller coaster speed	 Click Reset. Select the 35-g toy car.





Answer To Student Exploration Roller Coaster Physics

M Carnoy

Answer To Student Exploration Roller Coaster Physics:

Answer To Student Exploration Roller Coaster Physics Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Answer To Student Exploration Roller Coaster Physics**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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