

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 one free roller coaster run, with maximum velocity.) Note: Most Coaster tracks as they are usually given up the first loop, then down.

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 loop? Why?

Answer:

The roller coaster track is higher than the first loop because the total energy of the roller coaster doesn't increase during the 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 rule is to get the car off the first loop. Use the default settings (mass = 100 kg, track 2 = 10 cm, height 2 = 10 cm, 100 g egg).



1. Click Play. → The car goes 100 g and goes down the track. Does the car break the egg? No
2. Click Reset. → → Set Height 2 to 20 cm, and click Play. Does the car break the egg? Yes
3. Click Reset. Lower Height 2 back to 10 cm and speed the 100 g toy car. Click Play. Does the 100 g toy car break the egg? Yes



Roller Coaster Physics Exploration Sheet Answer Key

Mark Steyvers

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

Roller Coaster Physics Exploration Sheet Answer Key:

Roller Coaster Physics Exploration Sheet Answer Key Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability 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 **Roller Coaster Physics Exploration Sheet Answer Key**, 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's key themes, examine its writing style, and analyze its overall effect on readers.

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