

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 down the track. Does the car break the egg? No
2. Click Reset. → Click Track 2 to 10 cm, and click Play. Does the car break the egg? No
3. Click Reset. Click Height 2 to 10 cm and click the 100-g egg car. Click Play. Does the 100-g car break the egg? No



Roller Coaster Physics Exploration Sheet Answer Key

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Reviewing **Roller Coaster Physics Exploration Sheet Answer Key**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Roller Coaster Physics Exploration Sheet Answer Key**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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