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## Student Exploration: Roller Coaster Physics

**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.

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

The roller coaster goes up the first (the largest) hill.

2. Does the roller coaster ever get higher than the first hill? No


Explain. No the first hill always has to be the highest or else the roller coaster will not complete the full length.

### 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).

1. Press **Play** () to roll the 35-gram toy car down the track. Does the car break the egg? No



2. Click **Reset** () . Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg? Yes
3. 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? Yes
4. What factors seem to determine whether the car will break the egg? The main factors that determine whether or not the egg breaks is the height of hill and the weight of the car. This is because the higher the hill, the higher the potential mechanical energy there is, causing a bigger and stronger on the egg.

# Roller Coaster Physics Exploration Sheet Answers

**ML Yell**



## **Roller Coaster Physics Exploration Sheet Answers:**

## **Roller Coaster Physics Exploration Sheet Answers** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Roller Coaster Physics Exploration Sheet Answers**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## Roller Coaster Physics Exploration Sheet Answers Introduction

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