

Name: **Kailee Green**

Date: **February 1st**

Format all responses in **blue bold font**.

## Student Exploration: Roller Coaster Physics

**Vocabulary** (refer to vocab file located on the Gizmo site for definitions): 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?  
**You go up a very large hill and then go down it.**

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

**No because any hill higher then the first one will cause**

**deceleration.**

**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?

**It touches it but does not break it.**

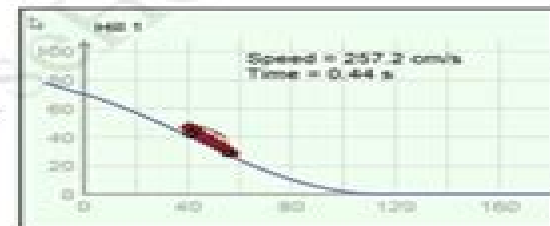
2. Click Reset (↺). Set Hill 1 to 80 cm, and click Play. Does the car break the egg? \_\_  
**Yes.**

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 weight of the car and the height of the hill.**



# Gizmo Roller Coaster Physics Worksheet Answers

**Peipei Pang**

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

## **Gizmo Roller Coaster Physics Worksheet Answers:**

K'nex Roller Coaster Physics ,      *Roller Coaster Physics* Tom Wayne, 1998 This section of the Physics Pavilion will discuss some of the principles involved in the design of a roller coaster It is intended for the middle or high school teacher Physics students may find the information helpful as well Many of the concepts can be applied to topics other than roller coasters Home page

## Unveiling the Magic of Words: A Report on "**Gizmo Roller Coaster Physics Worksheet Answers**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Gizmo Roller Coaster Physics Worksheet Answers**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

<https://staging.conocer.cide.edu/data/detail/HomePages/Kulani%20Mitaki.pdf>

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