

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.**



# Roller Coaster Physics Gizmo Answers

**SA Adler**



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web description example `s spline x y xq` returns a vector of interpolated values  $s$  corresponding to the query points in  $xq$  the values of  $s$  are determined by cubic spline interpolation of  $x$  and  $y$  example `pp spline x y` returns a piecewise polynomial

structure for use by ppval and the spline utility unmkpp

**natural cubic spline interpolation matlab answers mathworks** - Jun 20 2023

web mar 19 2021 how do you get the equation of the spline from matlab the code successfully graphs the cubic spline given my points but i need the actual equation for the function of the spline for further calcu