



Name:

Date:

## Student Exploration: Roller Coaster Physics

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**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?

At the beginning of a roller coaster ride, the coaster car is pulled to the top of the first hill, and released afterwards. The car accelerates downwards, and the velocity of the car increases from 0 to maximum while rolling down on the track due to gravity.

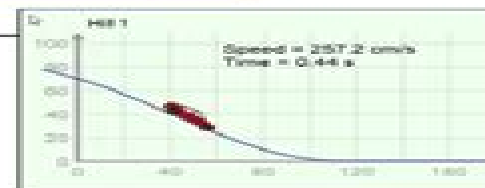
2. Does the roller coaster ever get higher than the first hill? Explain.

The roller coaster does not get higher than the first hill if it is not powered by any other source. The highest position of the car would have the maximum potential energy.

At the top of the first hill, potential energy is maximum, and the total mechanical energy would be the same as potential energy. When there is friction, the total mechanical energy will be decreased, and the maximum height reached by the roller coaster would be less than the height of the first hill. But if there wasn't any friction, the total mechanical energy would be conserved. Therefore, the maximum height that the

### 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?

# Explore Learning Student Exploration U Roller Coaster Physics

**Julia Schneider**



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