

## Student Exploration Roller Coaster Physics Answers

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2019 Name: \_\_\_\_\_ Date: \_\_\_\_\_ 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.

~~Roller Coaster Student sheet (1).docx~~ Name Date Student ...

Student Exploration: Roller Coaster Physics (ANSWER KEY) Download Student Exploration: Roller Coaster Physics Vocabulary: friction, gravitational potential energy, kinetic energy, momentum, velocity 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.

~~Student Exploration Roller Coaster Physics (ANSWER KEY ...~~

Student Exploration: Roller Coaster Physics (ANSWER KEY) 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).

~~Roller Coaster Physics Gizmo Answers~~

Student Exploration: Roller Coaster Physics. Vocabulary: friction, gravitational potential energy, kinetic energy, momentum, velocity. 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.

~~Student Exploration: Roller Coaster Physics (ANSWER KEY)~~

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...

~~Student Exploration Roller Coaster Physics (ANSWER KEY ...~~

Roller Coaster Physics. Launch Gizmo. Adjust the hills on a toy-car roller coaster and watch what happens as the car careens toward an egg (that can be broken) at the end of the track. The heights of three hills can be manipulated, along with the mass of the car and the friction of the track. A graph of various variables of motion can be viewed as the car travels, including position, speed, acceleration, potential energy, kinetic energy, and total energy.

~~Roller Coaster Physics Gizmo : Lesson Info : ExploreLearning~~

Check out this Gizmo from @ExploreLearning! Adjust the hills on a toy-car roller coaster and watch what happens as the car careens toward an egg (that can be broken) at the end of the track. The heights of three hills can be manipulated, along with the mass of the car and the friction of the track. A graph of various variables of motion can be viewed as the car travels, including position, speed, acceleration, potential energy, kinetic energy, and total energy.

~~Roller Coaster Physics Gizmo : ExploreLearning~~

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Before we proceed any further with the analysis of what forces a person experiences on a roller coaster, we will assume that the roller coaster car does not experience any friction or air resistance. With that in mind, there will be two forces that act upon the roller coaster car: the FORCE OF GRAVITY ( $F_{\text{GRAV}}$ ) and the Normal Force ( $F_{\text{NORMAL}}$ ). The normal force is directed in the direction of the track, while the gravitational force is always directed downwards.

### ~~The Physics Of Roller Coasters » Science ABC~~

Roller Coaster Physics. Adjust the hills on a toy-car roller coaster and watch what happens as the car careens toward an egg (that can be broken) at the end of the track. The heights of three hills can be manipulated, along with the mass of the car and the friction of the track.

### ~~Roller Coaster Physics Gizmo Quiz Answers~~

Student Exploration Roller Coaster Physics Roller Coaster Physics. Adjust the hills on a toy-car roller coaster and watch what happens as the car careens toward an egg (that can be broken) at the end of the track. The heights of three hills can be manipulated, along with the mass of the car and the friction of the track.

### ~~Student Exploration Roller Coaster Physics Answers~~

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).

### ~~Student Exploration: Roller Coaster Physics~~

Students begin by creating a mind map that illustrates the connections between physics concepts and energy. Students use a simulation and a set of handouts to carry out an investigation of the physics of roller coasters. During the closure activity at the end of this lesson, I ask students to construct a headline about the most important and challenging parts of today's lesson.

### ~~Ninth grade Lesson Roller Coaster Simulation Lab ...~~

Student Exploration Roller Coaster Physics Roller Coaster Physics. Adjust the hills on a toy-car roller coaster and watch what happens as the car careens toward an egg (that can be broken) at the end of the track. The heights of three hills can be manipulated, along with the mass of the car and the friction of the track. Page 2/10

### ~~Student Exploration Roller Coaster Physics Answer Key~~

Roller Coaster Physics Answers Another important aspect of roller coaster physics is the acceleration the riders experience. The main type of acceleration on a roller coaster is centripetal acceleration. This type of acceleration can produce strong g-forces, which can either push you into your seat or make you feel like you're going to fly out ...

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