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Centripetal Force Student
Exploration Roller Coaster Physics
2019 Name: _____ Date: _____

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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.

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Student Exploration: Roller Coaster Physics (ANSWER KEY)
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Vocabulary: friction, gravitational potential energy, kinetic energy, momentum, velocity Prior Knowledge Questions (Do these

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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~~

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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.

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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...

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~~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

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Physics Answer 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 -
Explore Learning~~

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

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Physics Answers
Experiment, use the default settings (Hill 1 = 70 cm, Hill 2 = 0 cm, Hill 3 = 0 cm, 35-g car).

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Before we proceed any further
with the analysis of what forces a
person experiences on a roller

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Physics Answers
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_{GRAV}) and the Normal Force (F_{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

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the mass of the car and the
friction of the track.

~~Roller Coaster Physics Gizmo Quiz Answers~~

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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
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The heights of three hills can be
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~~Student Exploration Roller Coaster Physics Answers~~

The Roller Coaster Physics
Gizmo™ models a roller coaster
with a toy car on a track that

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Physics Answers 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.

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

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Coaster Physics Roller Coaster
Physics. Adjust the hills on a toy-
car roller coaster and watch what
happens as the car careens
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The heights of three hills can be
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of the car and the friction of the
track. Page 2/10

~~Student Exploration Roller
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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

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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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