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coaster Here's a

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Energy - Moving
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Spring 5th Grade*

Week 2

Rollercoasters! Roller

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*Coaster Physics on
Mars Law of
Conservation of
Energy and Energy
Transformations*

*(including HW
Assignments!)*

Centripetal Force

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~~Roller Coaster~~

~~Physics~~

2019 Name: _____

Date: _____ Student

Exploration: Roller

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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

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first long, steep hill.

Roller Coaster

~~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,

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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~~

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~~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

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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

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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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~~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...

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~~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

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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.

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~~Roller Coaster
Physics Gizmo:
Lesson Info:
Explore Learning~~

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

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Student

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

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total energy.

Roller Coaster

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

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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 Answer Key
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Coaster Physics

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Answers Student

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Coaster Physics

Answers When

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is essentially

problematic. This is

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~~Roller Coaster~~

~~Physics Answers~~

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

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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.

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~~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

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manipulated, along with the mass of the car and the friction of the track.

Answers

~~Roller Coaster~~

~~Physics Gizmo Quiz~~

~~Answers~~

Student Exploration

Roller Coaster

Physics Roller

Coaster Physics.

Adjust the hills on a

toy-car roller coaster

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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.

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~~Roller Coaster~~

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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).

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~~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

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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~~

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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

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car and the friction of
the track. Page 2/10

Roller Coaster

Physics

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

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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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Physics

Answers