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~~Calculate The Speed~~

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coaster lab report

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Force

Simulation Lab Roller
Coaster Physics

We have two
variables. p =position
on the track
(measured by path
length along the track)
 v =velocity. We pick
some point on the
track to be position $p=$
 0 and pick a
direction along the
track to be positive.

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Then the position is equal to the length of the track, from the origin to that point.

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PHYSICS Purpose:

The purpose of this simulation lab is to strengthen your

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Understanding of energy conservation in real-world applications. You will use a skateboarder and his park to represent the roller coaster and its track. You will observe many other physics concepts at work as well. Pre-Lab Inquiry

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PHYSICS Pre-Lab

Inquiry

Physics This

simulation is a variation of the Roller Coaster with Spring, please see that page for more information on the physics and how the simulation is done. The difference here is that the other

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end of the spring is attached to another ball on the track, instead of being fixed. We have 4 variables in this simulation:

myPhysicsLab Roller Coaster with Two Balls

The Roller Coaster Model Interactive is shown in the iFrame

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Physics
Answers

below. There is a small hot spot in the top-left corner.

Clicking/tapping the hot spot opens the Interactive in full-screen mode. Use the Escape key on a keyboard (or comparable method) to exit from full-screen mode. There is a second hot-spot in the lower-right corner of

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the iFrame.

Simulation Lab

Roller Coaster

Physics Simulation:
Roller Coaster Model

Activity A asks students to use a simulation to determine which factors affect the velocity of a toy car during moving along a roller coaster track.

During Activity B,

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Students use a more massive toy car to investigate how energy is transferred from one form to another as a roller coaster moves and determine the maximum velocity of the toy car can attain without breaking the egg.

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Ninth grade Lesson
Roller Coaster
Simulation Lab ...

Learn about the
conservation of
energy in the context
of a roller coaster
using our interactive
simulation.

Roller Coaster (Work,
Energy ... - Physics
Simulations

Page 17/37

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With The Physics Lab
Classroom's Roller
Coaster Model,
learners can study
energy conservation
and transformation,
the effect of friction on
energy, the direction
of velocity and force,
and much more... all
without ever getting
dizzy or leaving one's
seat. Three pre-built
track designs can be

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explored or learners
can design their own
track.

Physics

Answers

Physics Simulation:

Roller Coaster Model

Name: EMILY

NGUYEN Date:

2/8/17 Period: 4

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The purpose of this

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Roller_Coaster_Physics_Investigation
modified - Name

EMILY ...

When the roller coaster cart travels down hill it accelerates (the velocity increases), and when the roller coaster cart travels up hill it decelerates (the

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velocity decreases).

We are able to calculate the velocity of the roller coaster cart at any time by using the formulas given on the Motion page. The mass of the roller coaster cart will remain constant if the cart is empty; however, as people will be riding into the cart, the mass of the

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people also needs to
be taken into account.

Physics

Roller Coaster

Physics :: Roller
Coaster Physics

This simulator is
designed for people
who want to design
their own thrilling
coaster and educators
who want to use a
cool activity to

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simulate the application of physics by using an exciting interactive tool and access to a wonderful reference source. It is your mission to become a roller coaster designer so that you can achieve maximum thrills and chills without crashing or flying off the track (unless that's how

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you like your coaster
to work!).

Roller Coaster

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Roller Coaster Game

| Fun Learning |

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| Energy Skate Park:

Basics | 1.1.19

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Interactive
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Player 9. Get Flash

Coaster Creator -
JASON Project
Lab Roller Coaster,
Projectile Motion, and
Energy. Printer
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I Directions Step up
your apparatus as
shown in the
demonstration model
making sure that the
tape securing the
meter stick supporting
the track does not
interfere with the
car's motion. As you
run the experiment,
make sure that the
"legs" of the loop-the-
loop ...

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PhysicsLAB: Roller
Coaster, Projectile
Motion, and Energy
Physics of Loops The
primary force that
makes one feel a
particular set of
sensations is the
acceleration, and the
section of a roller
coaster that exploits
this acceleration

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(more accurately known as centripetal acceleration) are the clothoid loops. A clothoid loop assumes the geometric shape of a teardrop.

The Physics Of Roller
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Gravity applies a
constant downward

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force on the cars. The
coaster tracks serve
to channel this force \square
they control the way
the coaster cars fall. If
the tracks slope
down, gravity pulls the
front of the car toward
the ground, so it
accelerates. If the
tracks tilt up, gravity
applies a downward
force on the back of
the coaster, so it

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decelerates.

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HowStuffWorks
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and his park to represent the roller coaster and its track. You will observe many other physics concepts at work as well.

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danger, while keeping the rides safe. You've bought your ticket and boarded the roller coaster. Now you're barreling down the track at 60 miles per hour, taking hairpin turns and completing death-defying loops.

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