

Online Library Explore  
Learning Roller Coaster  
Physics Answer Key

# ***Explore Learning Roller Coaster Physics Answer Key***

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***Heather Jones, Author at  
ExploreLearning News | Page 5 of  
12***

***Interactive Simulations. Roller  
Coaster Model This interactive  
simulation allows students to  
explore energy and forces***

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***associated with the motion of a roller coaster car. The model window represents the forces ( $F_{grav}$  and  $F_{norm}$ ) the velocity by vector arrows and represents kinetic energy, potential energy, and the total mechanical energy by bar...***

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***Roller Coaster Physics Gizmo -  
ExploreLearning.pdf ...  
Gizmo of the Week: Roller Coaster  
Physics. by Heather Jones July 7,  
2014. Are you or your students  
planning a summer trip to an  
amusement park? Take advantage***

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***of this teachable moment with the  
Roller Coaster Physics Gizmo. ...  
We are pleased to announce that  
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Distinguished Achievement Award  
for Mathematics from ...***



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***Explore Learning Roller Coaster  
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***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.***

***Stephen Lippa, Author at  
ExploreLearning PD Blog - Page 2***

***...***

***ExploreLearning wins 3 Tech &  
Learning awards. Reflex works for***

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***ALL students, pt. 1. Happy Holidays from ExploreLearning. Gizmo of the Week: Quadratics in Factored Form. She has blossomed with Reflex. Home; About. ... Gizmo of the Week: Roller Coaster Physics. by Heather Jones July 7, 2014.***

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***Gizmo of the Week Articles -  
ExploreLearning News  
View Test Prep - Roller Coaster  
Physics Gizmo -  
ExploreLearning.pdf from SCIENCE  
1100 at Home School Alternative.  
ASSESSMENT QUESTIONS: Print  
Page Questions & Answers 1.***

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***Based on the setup below,***

***Expert Corner: Changes to Roller  
Coaster Physics ...***

***ExploreLearning® is a  
Charlottesville, VA based company  
that develops online solutions to  
improve student learning in math***

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***and science. STEM Cases,  
Handbooks and the associated  
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***ExploreLearning Gizmos: Math &***

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**Science Simulations**

***The Gizmo demonstrates how potential energy is converted to kinetic energy (and vice versa) as a toy car moves over a series of hills before crashing into an egg. This is similar to how the potential energy of a roller coaster car is converted***

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*to kinetic energy as it rolls over hills and around loops.*

***Roller Coaster Physics - Amazon S3  
Roller Coaster Physics & Sled Wars  
Gizmo Assessment A. Log into  
[explorelarning.com](http://explorelarning.com) and complete  
the assessments for Roller Coaster***



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***Physics AND Sled Wars. Each assessment has 5 questions and are located under the gizmo once it has been launched. B. On a piece of paper, place your name in the upper right hand corner. Title***

***Gizmos Blog Posts & Articles |***

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**ExploreLearning News**

***Expert Corner: Changes to Roller Coaster Physics Kurt Rosenkrantz is a science curriculum writer and Gizmo designer for ExploreLearning. Kurt holds a Master of Science in Geology from the University of Cincinnati, and a***

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***bachelor's degree in Earth Science  
from Harvard.***

***Roller Coaster Physics Gizmo :  
Lesson Info : ExploreLearning  
DESCRIPTION. Adjust the hills on a  
toy-car roller coaster and watch  
what happens as the car careens***

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***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,...***

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**ExploreLearning Gizmos: Math &  
Science Simulations**

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***Roller Coaster Physics -  
breathitt.k12.ky.us  
Expert Corner: Changes to Roller***

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***Coaster Physics Kurt Rosenkrantz is a science curriculum writer and Gizmo designer for ExploreLearning. Kurt holds a Master of Science in Geology from the University of Cincinnati, and a bachelor's degree in Earth Science from Harvard.***

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***Introduction to the Roller Coaster  
Problem Based Learning Unit  
Roller Coaster Physics Gravity  
plays a huge part in roller coaster  
physics. As a coaster gets higher,  
gravity can pull the cars down  
faster and faster to push them***



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*along the tracks.*

***Roller Coaster Physics - Complete  
Toolkit***

***Physics Families. The goal of this  
lesson is for students to be  
introduced to the Roller Coaster  
Problem Based Learning Unit and***

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***to start asking questions about the different topics of the energy unit including work, power and different types of energy. This is the first lesson of the unit so it also acts as a hook to keep students interested...***

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***Ontario Archives - Page 11 of 23 -  
ExploreLearning PD Blog  
This month in science news,  
researchers have reported taking  
the first pictures of photosynthesis  
in action using an x-ray laser to  
record snapshots of molecules...***

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**ExploreLearning Gizmos: Math & Science Simulations**  
**Expert Corner: Changes to Roller Coaster Physics Kurt Rosenkrantz is a science curriculum writer and Gizmo designer for ExploreLearning. Kurt holds a Master of Science in Geology from**

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***the University of Cincinnati, and a bachelor's degree in Earth Science from Harvard.***

***Gizmo of the Week: Roller Coaster Physics ...***

***Launch the Roller Coaster Physics Gizmo. The Roller Coaster Physics***

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***Gizmo™ models a roller coaster with a toy car on a track that leads to an egg.. 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.***

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***Roller Coaster Physics Gizmo :  
ExploreLearning  
Explore the physics of projectile  
motion in a frictional or ideal  
setting. Horizontal and vertical  
velocity vectors can be displayed,  
as well as the path of the ball. The  
height of the golfer and the force of***

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*gravity are also adjustable.*

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