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~~Centripetal Force Student  
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2019 Name: \_\_\_\_\_ Date: \_\_\_\_\_

Student Exploration: Roller  
Coaster Physics Vocabulary:  
friction, gravitational potential  
energy, kinetic energy,  
momentum Prior Knowledge

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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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Vocabulary: friction, gravitational  
potential energy, kinetic energy,  
momentum, velocity Prior

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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)  
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.

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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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# Where To 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



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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

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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-~~

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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

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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~~

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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

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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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with a toy car on a track that  
leads to an egg. You can change

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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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Before we proceed any further with the analysis of what forces a person experiences on a roller coaster, we will assume that the

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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

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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

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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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Physics. Adjust the hills on a toy-  
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happens as the car careens  
toward an egg (that can be

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(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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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  
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Students begin by creating a mind map that illustrates the connections between physics concepts and energy. Students use a simulation and a set of

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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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Physics. Adjust the hills on a toy-  
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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. Page 2/10

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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 centripetal acceleration. This type

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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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Classroom into a place where  
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Instructional theory describes a variety of methods of instruction (different ways of facilitating human learning and development) and when to

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Use--and not use--each of those methods. It is about how to help people learn better. This volume provides a concise summary of a broad sampling of new methods of instruction currently under development, helps show the interrelationships among these

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diverse theories, and highlights current issues and trends in instructional design. It is a sequel to Instructional-Design Theories and Models: An Overview of Their Current Status, which provided a "snapshot in time" of the status of instructional theory in the early

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1980s. Dramatic changes in the nature of instructional theory have occurred since then, partly in response to advances in knowledge about the human brain and learning theory, partly due to shifts in educational philosophies and beliefs, and



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partly in response to advances in information technologies. These changes have made new methods of instruction not only possible, but also necessary in order to take advantage of new instructional capabilities offered by the new technologies. These

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changes are so dramatic that many argue they constitute a new paradigm of instruction, which requires a new paradigm of instructional theory. In short, there is a clear need for this Volume II of Instructional Design Theories and Models. To attain

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the broad sampling of methods and theories it presents, and to make this book more useful for practitioners as well as graduate students interested in education and training, this volume contains twice as many chapters, but each half as long as the ones in Volume

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and the descriptions are generally less technical. Several unique features are provided by the editor to help readers understand and compare the theories in this book: \*Chapter 1, which discusses the characteristics of instructional

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theory and the nature of the new paradigm of instruction, helps the reader identify commonalities across the theories. \*Chapter forewords, which summarize the major elements of the instructional-design theories, are useful for reviewing and

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Comparing theories, as well as for previewing a theory to decide if it is of interest, and for developing a general schema that will make it easier to understand. \*Editor's notes provide additional help in understanding and comparing the theories and the new paradigm of

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instruction to which they belong.

\*Units 2 and 4 have introductory chapters to help readers analyze and understand the theories in those units. This is an essential book for anyone interested in exploring new approaches to fostering human learning and

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development and thinking creatively about ways to best meet the needs of learners in all kinds of learning contexts.

Readers are invited to use Dr. Charles Reigeluth's Web site to comment and to view others' comments about the instructional



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design theories in this book, as well as other theories. Point your browser to:

[www.indiana.edu/~idtheory](http://www.indiana.edu/~idtheory)

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Theoretical Foundations of Learning Environments provides students, faculty, and instructional designers with a clear, concise introduction to the major pedagogical and psychological theories and their

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rise of constructivism and its associated theories represented a paradigm shift for educators and instructional designers to a view of learning as necessarily more social, conversational, and constructive than traditional transmissive views of learning.

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Explains how and why ramps and other inclined planes are used in everyday life.

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guidelines for integrating science,  
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teachers and future teachers with tools to create and implement standards-based STEM curriculum and cognitively demanding tasks, author Sherri Cianca offers hands-on, easily implemented strategies that foster student reasoning, autonomy, and humanity. This



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fresh approach to STEM teaching empowers teachers (preservice and inservice) and other leaders to better understand the standards and better design effective instructional practices. The chapters work together to advance teachers' abilities to

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Criteria. Dr. Cianca's vision is that teachers serve as well-equipped change agents that will empower their students to transfer STEM learning into applications that will impart a positive impact on our future world.

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