

Name: **Kailee Green**

Date: **February 1st**

Format all responses in **blue bold font**.

Student Exploration: Roller Coaster Physics

Vocabulary (refer to vocab file located on the Gizmo site for definitions): 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.

1. What happens at the beginning of every roller coaster ride?
You go up a very large hill and then go down it.
2. Does the roller coaster ever get higher than the first hill?
Explain.

No because any hill higher than the first one will cause

deceleration.

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).

1. Press **Play** (▶) to roll the 35-gram toy car down the track. Does the car break the egg?

It touches it but does not break it.

2. Click **Reset** (↺). Set Hill 1 to 80 cm, and click **Play**. Does the car break the egg? __
Yes.

3. Click **Reset**. Lower Hill 1 back to 70 cm and select the 50-gram toy car. Click **Play**. Does the 50-gram car break the egg?

Yes

4. What factors seem to determine whether the car will break the egg?

The weight of the car and the height of the hill.



Roller Coaster Physics Answers

Dwight E. Neuenschwander

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

Roller Coaster Physics Answers:

Science Maria L. Chang, 2002 These simple to play science games are sure fire sparks for learning Studying food chains Play predator prey card game To explore magnetism students can make their way through a magnet maze These and other reproducible dice board and spinner games teach and reinforce key primary science concepts Includes background information complete how to's and resources Content geared to the National Science Standards This text refers to an out of print or unavailable edition of this title **The Question is the Answer** Molly Ness, 2015-12-08 The Question is the Answer is a teacher's guide to helping young readers generate text based questions The purpose of this book is to help teachers and parents value and promote student generated questions to facilitate motivation engagement and cognitive development

Amusement Park Physics Nathan A. Unterman, 2001 How many physics texts have a chapter titled Spin and Barf Rides But then how many physics texts calculate the average acceleration during roller coaster rides Or establish the maximum velocity of a Tilt a Whirl *Amusement Park Physics* is a unique and immensely popular book that investigates force acceleration friction and Newton's Laws through labs that use popular amusement park rides Includes a detailed field trip planner formulas answer key and more [Common Core State Standards for Grade 8](#) Michelle Manville, 2014-07-30 *Common Core State Standards for Grade 8 Language Arts Instructional Strategies and Activities* is designed to help teachers address Common Core standards using effective research based instructional strategies in combination with ready to use activities These strategies include identifying similarities and differences writing summaries and taking notes creating non linguistic representations and suggestions for homework and practice There are a variety of suggested texts as well as identified text exemplars that can easily be used with the strategies and activities *Aviation* Carmella Van Vleet, 2016-09-19 Have you ever looked up into the sky seen an airplane and wondered where it was going and who was flying it *Aviation* is the study of the design development and production and operation of aircraft In *Aviation Cool Women Who Fly* children ages 9 to 12 learn about this fascinating field and meet three successful women working in aviation Meg Godlewski is a master certified flight instructor Kristin Wolfe is a pilot in the Air Force and Taylor McConnell is a production support engineer Nomad Press books in the Girls in Science series supply a bridge between girls interests and their potential futures by investigating science careers and introducing women who have succeeded in science Compelling stories of real life aviation experts provide readers with role models that they can look toward as examples of success *Aviation Cool Women Who Fly* uses engaging content links to primary sources and essential questions to whet kids appetites for further exploration and study of aviation This book explores the history of aviation the women who helped pioneer flight and the multitude of varied careers in this exciting and important field Both boys and girls are encouraged to let their imaginations and dreams soar **STEM Years 4-5: Book 1** Leonie Westenberg, 2017 This book is ideal for teachers looking to optimise STEM in the classroom In recent times there has been a strong call to increase the focus on STEM activities in Australian schools By

offering STEM in primary schools it is hoped that students will operate more effectively in the science and technology based society in which they live This book is one of a two set series which uses roller coasters as a means to connect students with Science Technology Engineering and Maths The Handbook of Discourse Analysis Deborah Tannen, Heidi E. Hamilton, Deborah Schiffrin, 2018-02-28 The second edition of the highly successful Handbook of Discourse Analysis has been expanded and thoroughly updated to reflect the very latest research to have developed since the original publication including new theoretical paradigms and discourse analytic models in an authoritative two volume set Twenty new chapters highlight emerging trends and the latest areas of research Contributions reflect the range depth and richness of current research in the field Chapters are written by internationally recognized leaders in their respective fields constituting a Who's Who of Discourse Analysis A vital resource for scholars and students in discourse studies as well as for researchers in related fields who seek authoritative overviews of discourse analytic issues theories and methods **Emmy Noether's Wonderful Theorem** Dwight E. Neuenschwander, 2017-04-01 One of the most important and beautiful mathematical solutions ever devised Noether's theorem touches on every aspect of physics In the judgment of the most competent living mathematicians Emmy Noether was the most significant creative mathematical genius thus far produced since the higher education of women began Albert Einstein The year was 1915 and the young mathematician Emmy Noether had just settled into Göttingen University when Albert Einstein visited to lecture on his nearly finished general theory of relativity Two leading mathematicians of the day David Hilbert and Felix Klein dug into the new theory with gusto but had difficulty reconciling it with what was known about the conservation of energy Knowing of her expertise in invariance theory they requested Noether's help To solve the problem she developed a novel theorem applicable across all of physics which relates conservation laws to continuous symmetries one of the most important pieces of mathematical reasoning ever developed Noether's first and second theorem was published in 1918 The first theorem relates symmetries under global spacetime transformations to the conservation of energy and momentum and symmetry under global gauge transformations to charge conservation In continuum mechanics and field theories these conservation laws are expressed as equations of continuity The second theorem an extension of the first allows transformations with local gauge invariance and the equations of continuity acquire the covariant derivative characteristic of coupled matter field systems General relativity it turns out exhibits local gauge invariance Noether's theorem also laid the foundation for later generations to apply local gauge invariance to theories of elementary particle interactions In Dwight E Neuenschwander's new edition of Emmy Noether's Wonderful Theorem readers will encounter an updated explanation of Noether's first theorem The discussion of local gauge invariance has been expanded into a detailed presentation of the motivation proof and applications of the second theorem including Noether's resolution of concerns about general relativity Other refinements in the new edition include an enlarged biography of Emmy Noether's life and work parallels drawn between the present approach and Noether's original 1918 paper and a summary of the logic

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American Association of Physics Teachers. Amusement Park Physics Handbook Committee, 2001

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