

Name: Aleksa Adel JennyDate: December 14th 2021

Student Exploration: Roller 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 first long, steep hill.

1. What happens at the beginning of every roller coaster ride?

The roller coaster goes up the first (the largest) hill.

2. Does the roller coaster ever get higher than the first hill? No

Explain. No the first hill always has to be the highest or else the roller coaster will not complete the full length.

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? No

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 main factors that determine whether or not the egg breaks is the height of hill and the weight of the car. This is because the higher the hill, the higher the potential mechanical energy there is, causing a bigger and stronger on the egg.



Roller Coaster Physics Exploration Sheet Answers

RJ Shavelson

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

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Scream Machines (Roller Coasters) Judy A. Johnson, Bonnie J. Krueger, 2009-09-01 Do you ever feel under the weather or have a short time to fill before a school assembly Keep your students learning with this cross curricular unit about roller coasters They will discover fascinating facts about roller coasters including the science behind them This packet includes a two page story worksheets and extension activities for those I just can't teach right now moments *Emergency Lesson Plans - Grades 3-4* Judy A. Johnson, Bonnie J. Krueger, 2009-09-01 Feeling under the weather Do you have just a short amount of time to fill before a school assembly This collection of educationally based cross curricular activities is ready to use for any emergency teaching situation Made up of 8 comprehensive units 24 reproducible exercises and numerous extension activities Emergency Lesson Plans requires little or no preparation time to use and addresses the National Standards Article topics in Emergency Lesson Plans include animal training bike riding spiders left handedness T rex roller coasters Hercules and ice cream

Exploration and Meaning Making in the Learning of Science Bernard Zubrowski, 2009-08-14 Mountaineers Rock Climbers and Science Educators Around the 1920s rock climbing separated from mountaineering to become a separate sport At that time European climbers developed new equipment and techniques enabling them to ascend mountain faces and to climb rocks which were considered unassailable up to that time American climbers went further by expanding and improving on the equipment They even developed a system of quantification where points were given for the degree of difficulty of an ascent This system focused primarily on the pitch of the mountain and it even calculated up to decimals to give a high degree of quantification Rock climbing became a technical system Csikszentmihaly 1976 observed that the sole interest of rock climbers at that time was to climb the rock Rock climbers were known to reach the top and not even glance around at the scenery The focus was on reaching the top of the rock In contrast mountaineers saw the whole mountain as a single unit of perception The ascent to them is a gestalt including the aesthetic historical personal and physical sensations Csikszentmihaly 1976 p 486 This is an example of two contrasting approaches to the same kind of landscape and of two different groups of people Interestingly in the US Europe and Japan a large segment of the early rock climbers were young mathematicians and theoretical physicists while the mountaineers were a more varied lot

Basic Physics for Nerds

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PHYSICS Jane Gardner, 2014-05-19 Have you ever noticed that the physical world works in certain ways Skateboarders use force and motion to perform tricks If you jump up as high as you can you'll quickly fall back to the ground Baseball players use gravity to bring the ball back down when they throw it When you flip a switch electricity powers your toaster Rock bands use electricity to put on a show The fascinating science of physics helps you understand why forces motion gravity electricity light and sound work in predictable ways Combining inquiry-based activities with physics topics Physics Investigate the Forces of Nature features graphic novel illustrations fascinating sidebars youtube links and a glossary of important vocabulary to illuminate the complex world of physics and bring it to life Projects include designing a skateboard park that maps the forces at work on the skateboarder and the skateboard and creating a stage design for a rock band that places electric current where it is needed Additional materials include a timeline a list of current reference works and Internet resources This title meets Common Core State Standards for literacy in science and technology Guided Reading Levels and Lexile measurements indicate grade level and text complexity

Gaming Educational Applications Mason Ross, AI, 2025-03-04 Gaming Educational Applications explores how digital games can be powerful tools for education moving beyond simple entertainment to foster genuine learning The book examines the core principles of game design such as challenge and reward and demonstrates how these elements can be strategically applied across diverse subjects to enhance student engagement knowledge retention and skill development It highlights that thoughtfully designed games when integrated into curricula can lead to demonstrably improved learning outcomes compared to traditional teaching methods This academic yet accessible work provides a historical and theoretical context for game-based learning tracing its evolution and grounding it in established learning theories like constructivism The book emphasizes the importance of measurable learning outcomes advocating for rigorous assessment methodologies including pre and post testing and in-game analytics to evaluate the impact of educational games It progresses from foundational concepts to case studies to a model for designing implementing and measuring the impact of game-based learning

interventions providing educators and developers with practical guidance of Physics Teachers. Amusement Park Physics Handbook Committee, 2001

Amusement Park Physics American Association
The Children's Buyer's Guide, 2006

Decisions Based on Science Vincent Campbell, Jocelyn Lofstrom, Brian Jerome, 1997 This guide makes the case for a decision making focus in the science curriculum as a response to concern over preparing scientifically literate students The student activities are organized by guided activities and independent exercises Themes of the guided activities include xenotransplants immunizations household cleaning products ozone groundwater the politics of biodiversity speed limits roller coasters and recycling The independent exercises focus on bovine growth hormone chemical warfare asbestos zoos marine resources diet decisions hearing loss smoking sources of energy humans and robots in space meteors old growth forests severe weather and floodplains Appended are curriculum matrices a summary of decision making a blank decision chart and assessment rubrics DDR

Lost in Space Rob Kitchin, James Kneale, 2005-10-23 Science fiction one of the most popular literary cinematic and televisual genres has received increasing academic attention in recent years For many theorists science fiction opens up a space in which the here and now can be made strange or remade where virtual reality and cyborg are no longer gimmicks or predictions but new spaces and subjects Lost in space brings together an international collection of authors to explore the diverse geographies of spaceexploring imagination nature scale geopolitics modernity time identity the body power relations and the representation of space The essays explore the writings of a broad selection of writers including J G Ballard Frank Herbert Marge Piercy Kim Stanley Robinson Mary Shelley and Neal Stephenson and films from Bladerunner to Dark City The Fly The Invisible Man and Metropolis

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, 2001 *Carnegie*, 2007 **APlusPhysics** Dan Fullerton, 2011-04-28 APlusPhysics Your Guide to Regents Physics Essentials is a clear and concise roadmap to the entire New York State Regents Physics curriculum preparing students for success in their high school physics class as well as review for high marks on the Regents Physics Exam Topics covered include pre requisite math and trigonometry kinematics forces Newton's Laws of Motion circular motion and gravity impulse and momentum work energy and power electrostatics electric circuits magnetism waves optics and modern physics Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations

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