

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 Gizmo Answers

Paul Mason

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the name Paul Mason.

Roller Coaster Gizmo Answers:

Verve, 2000 Mademoiselle, 1999 **Science of Roller Coasters: Understanding Energy** Karen Latchana Kenney, 2016-01-01 In this engaging title young readers learn about different forms of energy Different forms of energy such as potential and kinetic are explained as are gravity acceleration velocity g forces and centripetal force These properties are illustrated by the design and operation of roller coasters Colorful infographics make joules and shifting energy easily accessible and prominent contributors such as LaMarcus Thompson are featured A fun experiment with potential and kinetic energy brings the science of energy to life Aligned to Common Core Standards and correlated to state standards Checkerboard Library is an imprint of Abdo Publishing a division of ABDO Roller Coaster Ride John Allan, 2020 You know that funny feeling you get in your stomach on an amusement park ride That's caused by the speed and steep drops the ride takes Learn more about forces and motion by examining the science behind a roller coaster ride The high speed thrills of a roller coaster have it all acceleration gravitational forces friction inertia speed velocity and more All the topics are explained in bite size easy to understand nuggets Photographs and clever illustrations throughout will draw readers into the science Plus a That's Incredible fact on each spread helps keep them entertained Roller Coasters Kaitlyn Duling, 2022-08-01 Put your hands in the air and enjoy a wild ride around the science of roller coasters This title includes leveled text that describes how a roller coaster's train and tracks interact The book then dives into how the twists and turns affect the train and the riders inside Special features reinforce the text to help young readers visualize the kinds of energy and forces at work A question encourages readers to imagine their own roller coaster design **Amusement Park Physics** American Association of Physics Teachers. Amusement Park Physics Handbook Committee, 2001 **How a Roller Coaster Is Built** Kate Mikoley, 2020 Anyone who has visited an amusement park has likely seen the hills and loops of a roller coaster For those who have felt the thrill of the ride it's often the excitement of that first drop or the speed that follows that keeps them coming back for more Before anyone can experience the adventure of a roller coaster a lot of hard work must go into building it Readers of this high interest resource will learn all about the science and mechanics behind the construction of roller coasters Aspiring engineers and amusement park enthusiasts alike will be captivated by this informative volume What Makes a Rollercoaster Roll? Paul Mason, 2012-05-01 Bold colourful readers with kid friendly characters and subjects they'd choose for themselves *The Science of Roller Coasters* Karen Latchana Kenny, 2017-01-27 In this engaging title young readers learn about different forms of energy Potential and kinetic energy are explained as are gravity acceleration velocity g forces and centripetal force These properties are illustrated by the design and operation of roller coasters A fun experiment with potential and kinetic energy brings the science of energy to life F P W Type Nonfiction **Make a Roller Coaster** Meg Gaertner, 2020-08 People have been riding thrilling roller coasters since the 1800s Gravity and kinetic energy make these rides exciting But roller coasters aren't just found at theme parks Smaller versions can be made at home Hills give energy to

the car as it speeds along the track Learn how to make a roller coaster by using materials such as plastic cups marbles and tape Watch as your roller coaster zooms over hills and around loops Roller Coasters Virginia Loh-Hagan,2017 Introduces young readers to the basic force and motion concepts of physics as applied in the engineering and construction of roller coasters **Roller Coaster Ride** Michael Keith,2002 A roller coaster ride can be fun as you rush up and down curving left and twisting right Before you plan to go with your dad make sure he can take it **Roller Coasters** Jennifer MacKay,2012-10-19 Author Jenny MacKay takes readers on a wild ride through the history design fundamentals and scientific principles behind roller coasters Readers will learn how gravity and physical forces create the fastest amusement park attractions and how steel and wooden roller coasters are designed and constructed The final chapter focused on the roller coasters of the future describes the recent use of electromagnets and CAD technology Roller Coaster Science Jim Wiese,1994 Describes the science behind such amusements as roller coasters swings bumper cars hot dogs curve balls and more Includes easy experiments to do **Roller Coasters, Or, I Had So Much Fun, I Almost Puked** Nick Cook,1998-01-01 Discusses the history physics parts and design of roller coasters and examines some modern examples

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