

Name: **Lee Arthur**

Date:

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 beats faster as the car slowly goes up the first long, steep hill.

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

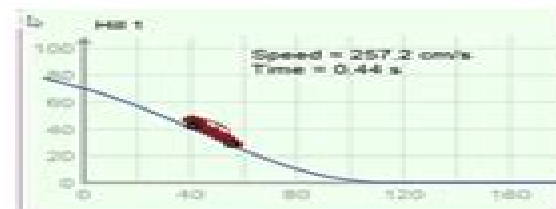
You gain momentum.

2. Does the roller coaster ever get higher than the first hill? **No**
Explain. It would not have enough momentum to get higher than the first hill.

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).

- A. Press **Play** () to roll the 35-gram toy car down the track. Does the car break the egg? **No**

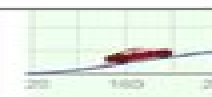


1. Click **Reset** (). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg? **Yes**
2. Click **Reset**. Lower **Hill 1** back to 70 cm and select the 50-gram toy car. Click **Play**. Does the 50-gram car break the egg? **Yes**.
3. What factors seem to determine whether the car will break the egg?
The height of the hill and the weight of the car.

Activity A:
Roller coaster speed

Get the Gizmo ready:

- Click **Reset**.
- Select the 35-g toy car.



Answer To Student Exploration Roller Coaster Physics

JR Anderson



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Techniques, 2003 Making education and career connections

Approaches and Strategies in Next Generation Science Learning Khine, Myint Swe, 2013-01-31 Approaches and Strategies in Next Generation Science Learning examines the challenges involved in the development of modern curriculum models, teaching strategies and assessments in science education in order to prepare future students in the 21st century economies. This comprehensive collection of research brings together science educators, researchers and administrators interested in enhancing the teaching and learning of next generation science.

Illinois Chemistry Teacher, 1998

Structure and Improvisation in Creative Teaching R. Keith Sawyer, 2011-06-27 With an increasing emphasis on creativity and innovation in the twenty first century, teachers need to be creative professionals just as students must learn to be creative. And yet schools are institutions with many important structures and guidelines that teachers must follow. Effective creative teaching strikes a delicate balance between structure and improvisation. The authors draw on studies of jazz, theater, improvisation and dance improvisation to demonstrate that the most creative performers work within similar structures and guidelines. By looking to these creative genres, the book provides practical advice for teachers who wish to become more creative professionals.

Interactions Marilyn Penovich Friend, Lynne Cook, 2003 Provides a cutting edge look at how teams of school professionals—classroom teachers, special education teachers and counselors—can effectively work together to provide a necessary range of services to students with special needs. As a result, future teachers learn how to collaborate with school professionals and families to help special education students who are more often being placed in general classroom settings.

The Magic Carpet Ride Annette C. Lamb, 1998 Grade level 1 2 3 4 5 6 7 8 9 10 11 12 keep it

The Frugal Science Teacher, 6-9 Linda Froschauer, 2010 By following the recommendations found in this book, writes Froschauer, a retired classroom teacher of 35 years, you will find creative ways to keep expenses down and stretch your funds while building student understanding.

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