Roller Coaster Thrills

by Lydia Lukidis

You're cranking up the roller coaster, ever so slowly. Time seems to stand still. Your heart races faster and faster. Your palms start sweating. Here comes the big drop...

> Ahhhhhhhhhhhhhhhhhhhhhh Most of you have been on roller



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So let's get back to roller coasters. Guess what? They don't have engines! Surprised? You know that most vehicles like cars, trucks and airplanes have an engine. So how does a roller coaster move without one? To begin, a motorized chain pulls the cars to the top of the hill. After that, the cars move by themselves. I'm sure you all know what gravity is. It's the force that pulls you down to the Earth. The same goes for the roller coaster. Once it reaches the top of the hill, it gets pulled down by gravity.

This part is simple enough. But how does the roller coaster continue moving? After it falls, its potential energy gets turned into kinetic energy. These may sound like big words but it's really quite simple.

When a roller coaster sits on top of a hill, it has potential energy, or stored energy. This potential energy changes to kinetic energy when it goes down the hill. Kinetic energy is energy in motion. It allows the roller

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safe, exciting, and powerful roller coasters. A roller coaster is really a major science project! The next time you are at the amusement park, head over to the long line for the roller coaster. Riding the roller coaster might become your new favorite physics lesson!



About the Author

Lydia Lukidis is a published children's author with a multidisciplinary background that spans the fields of literature, theater and puppetry.

Lydia's picture book, Gerbs in the House: The Dilly Dally Bedtime Routine, is now available. Find out if Mocha will ever get his silly son to sleep!

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In the reading passage, "Roller Coaster Thrills," you learned about roller coasters and the basic laws of physics that make them work.

On the lines below, describe your favorite amusement park ride. Why is it your favorite ride? Be sure to use complete sentences.





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 According to the reading passage, a roller coaster makes its long climb to the top of the first hill with the help of what?





ANSWER KEY

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