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The Gizmo demonstrates how potential energy is converted to kinetic energy (and vice versa) as a toy car moves over a series of hills before crashing into an egg. This is similar to how the potential energy of a roller coaster car is converted to kinetic energy as it rolls over hills and around loops.

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Explore the physics of projectile motion in a frictional or ideal setting. Horizontal and vertical velocity vectors can be displayed, as well as the path of the ball. The height of the golfer and the force of gravity are also adjustable.

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Expert Corner: Changes to Roller Coaster Physics Kurt Rosenkrantz is a science curriculum writer and Gizmo designer for ExploreLearning. Kurt holds a Master of Science in Geology from the University of Cincinnati, and a bachelor's degree in Earth Science from Harvard.

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### Introduction to the Roller Coaster Problem Based Learning Unit

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### Roller Coaster Physics Gizmo - ExploreLearning.pdf ... Gizmo of the Week: Roller Coaster Physics ...

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DESCRIPTION. Adjust the hills on a toy-car roller coaster and watch what happens as the car careens toward an egg (that can be broken) at the end of the track. The heights of three hills can be manipulated, along with the mass of the car and the friction of the track. A graph of various variables of motion can be viewed as the car travels,...

### Roller Coaster Physics Gizmo : ExploreLearning Ontario Archives - Page 11 of 23 - ExploreLearning PD Blog

### Roller Coaster Physics Gizmo : Lesson Info : ExploreLearning

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Interactive Simulations. Roller Coaster Model This interactive sim-

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