Activity 8: Energy on a roller

Gert the Giorna reads:

- Click Reset. Select the 50-p car.
- Check that the Coefficient of trution is 0.00.
- Sur MSE 1 to 100 om, and MSE 2 and \$ to 0 om.



Question: You does energy change on a moving roller coaster?

Observe Turn on Shore graph and saled E vs.1 to use a graph of energy (E) various time.
 Chin Play and observe the graph as the car pass disser the track.

Does the total energy of the car change as It goes direct the NIFF \_cock increase.

- Executions: The great strong patential arrange (U.S. & a car decorbed to every all proofeen. Class Report. Ser ME 3 to 30 cm. Select the U ex 1 graph, and class Play
  - A. What fappers to potential energy as the car goes down the NOT 3 pos from
  - E. What happens to potential energy as the car goes up the NET Care at
- Experiment: The Emails energy (K) of a car describes to energy of motion. Click Reset. Sariant the K es t barrets energy us, time: graph, and click Play.
  - A. What happens to kindle energy as the car goes disent the NOT 2 and Mr.
  - E. What happens to trinds energy as the oir goes up the NFT Jupon Arco.
- Specialize Click Report, Ser MRE 1 to 30 cm. MRE 2 to 50 cm. and MRE 3 to 79 cm. Se ours the Sting toy car to selected, and press. Play. Shatch the Stiles 1, Kiles 1, and Elve 1 graphs below.







Draw perchangs: You are potential energy, limits, energy, and total energy related?
 then present gree up limits goes force.

(Activity & continued on neel page)

# **Answer Key Weston Walch Roller Coaster**

Siddappa N.Byrareddy

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Amusement Park Physics Nathan A. Unterman,2001 How many physics texts have a chapter titled Spin and Barf Rides But then how many physics texts calculate the average acceleration during roller coaster rides Or establish the maximum velocity of a Tilt a Whirl Amusement Park Physics is a unique and immensely popular book that investigates force acceleration friction and Newton's Laws through labs that use popular amusement park rides Includes a detailed field trip planner formulas answer key and more

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