

Name: _____

Date: _____

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Online Simulation Lab → ROLLER COASTER PHYSICS

Purpose: The purpose of this simulation lab is to strengthen your understanding of energy conservation in real-world applications. You will use a skateboarder and his park to represent the roller coaster and its track. You will observe many other physics concepts at work as well.

Pre-Lab Inquiry

What Do You Think?

You are asked to design a new roller coaster. It is totally up to you to determine what the riders will experience. The only rule is that the coaster obeys the laws of physics. Take a minute and brainstorm about a design you would like.

1. Name three adjectives that will describe your roller coaster.
2. Describe three features your roller coaster will have that will attract riders.
3. Name three variables that will affect the type of experience a rider will have. **EXPLAIN.**
4. Name three concepts of physics that the roller coaster must obey in order to be successful. **EXPLAIN.**
5. Draw a side-view sketch of your roller coaster design below.

Simulation Lab Roller Coaster Physics Answers

**Ning Wang, Genaro Rebolledo-
Mendez, Noboru Matsuda, Olga C.
Santos, Vania Dimitrova**

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