

Physics of Roller Coasters

Lab Journal



Student Name: _____

Vocabulary

WORD	DEFINITION	PICTURE
Gravity		
Energy		
Force		

Vocabulary

Cut out these vocabulary definitions. Then match and paste them with the words on pages 1 and 2.

The ability to do work		Energy possessed by an object due to its motion or its stored energy of position
The energy of motion		A force that pulls objects toward the center of the Earth
The energy of position; energy that is stored and held in readiness		An influence (push or pull) on a body or system, causing a change in movement or shape

My Questions

Questions I want to ask about gravity, force or roller coasters:

1. _____

Answer: _____

Source: _____

2. _____

Answer: _____

Source: _____

3. _____

Answer: _____

Source: _____

Lab Questions

1. List some of the parts needed to create a roller coaster.

A. _____

B. _____

C. _____

2. Draw a picture of your first roller coaster.

3. Draw a picture of your second roller coaster.

4. Label places of high potential energy (PE) and high kinetic energy (KE) on your roller coaster drawings for questions number 2 and 3.