## Physics of Roller Coasters Lab Journal



Student Name: \_\_\_\_\_



### Vocabulary

# WORD DEFINITION **PICTURE** Acceleration Gravity Energy Force

### **Post-Visit Journal**

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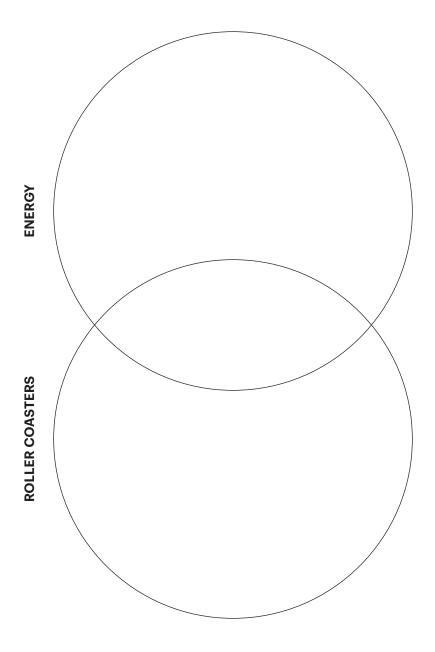
### Vocabulary

WORD	DEFINITION	PICTURE
Mechanical energy		
Kinetic energy		
Potential energy		
Velocity		

Pre-Visit Journal		

### Venn Diagram

Include at least 3 things in each space of the Venn diagram to demonstrate your understanding of roller coasters and energy.



Notes and Connections	Pre-Visit Journal
If you get a chance to see an IMAX film, visit the galleries or participate in other experiences at The Tech Interactive, look for connections between the lab content and your other experiences.	
Look for information about gravity, energy and force of motion.  What do you find?	
GRAVITY	
What did you see/learn? Where?	
ENERGY	
What did you see/learn? Where?	
FORCE OF MOTION	
What did you see/learn? Where?	

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### **My Questions**

# Questions I want to ask about gravity, force or roller coasters: Answer: Source: Answer: \_\_\_\_\_ 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.	