Name:	Date:	Period:
Roller Coaster Energy	•	
An Investigation of Potential a	and Kinetic Energy	
Take a virtual ride on the Millennium Force at Ceda video option and press play. <a href="https://www.cedarpoint.com/rides/Rolle">https://www.cedarpoint.com/rides/Rolle</a>		
ntips.// www.cedarpoint.com/racs/rtone		14111 1 0100
1. What does a roller coaster have to do with science a	and energy?	
Check out the energy in a roller coaster ride! Read page to answer the questions below. (Link 2)	-	ay the picture on this
http://science.howstuffworks.com/roll		ogt?
2. What is potential energy? At which point is potential	ar energy the greate	581!
3. What is kinetic energy? At which point is kinetic en	ergy the greatest?	
	2)	
Open the link below. Click the VIEW button. (Link http://illinois.pbslearningmedia.org/resource/hew06	,	ercoaster/energy_in_a_
roller-coaster-ride/	<u></u>	arcoaster/energy-m-a-

4. What do you notice about the relationship between potential and kinetic energy and the path of the coaster?

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Take a second virtual ride, this time on the Top <a href="https://www.cedarpoint.com/rides">https://www.cedarpoint.com/rides</a> 5. Make a sketch (below) of what the roller coaster coast has the greatest potential energy AND the	Thrill Dragster! (Link s/Roller-Coasters/Top- r track looks like. Label	4) <u>Thrill-Dragster</u>
What is the best seat on a roller coaster? Read <a href="http://science.howstuffworks.com/transport/engine">http://science.howstuffworks.com/transport/engine</a> **If the link does not open, Google "Best Roller Coworks is the correct link. Click this link 6. As your roller coaster climbs to the top of the stee have the greatest potential energy? When does in	Coast Seat". The first line eepest hill on its track, v	k from How Stuff when does the first car
Create your own coaster! Keep in mind all that kinetic energy to make this coaster run! (Link 6 <a href="http://www.brainpop.com/games/">http://www.brainpop.com/games/</a> 7. If you are riding in your roller coaster, how do y energy?	coastercreator/	
8. What makes a successful roller coaster?		
9. Want to make another coaster? Try Links 7 and <a href="http://www.learner.org/interactives/park">http://www.learner.org/interactives/park</a> <a href="http://kids.discovery.com/games/build-pl">http://kids.discovery.com/games/build-pl</a>	<u>xphysics/coaster/</u>	