NAME	DATE

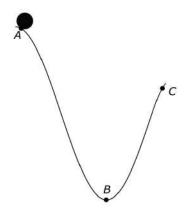
Scenario

A solid sphere is initially at rest at the top of a tall, rough hill. It rolls down the hill and up the next hill.

Using Representations

Angela

PART A: Angela, Blake, and Carlos each create an energy bar chart for the sphere-Earth system for the time between when it is released from rest at point A and when it reaches point B. For each graph, explain why it is either correct or incorrect.



Carlos

A



Blake

В

7.C Rotational Energy

How would each of the bar charts drawn in Part A be different if Earth were not part of the system.			
		rithout slipping and at point C, it leaves the track. At	
	it be above, below,	, or at the same height as point A? Explain your rea Same Height	
	ximum height afte	aped track with negligible friction and released from the second releas	
Greater than	Less than	Same as	
Explain your reasoning.			