Modeling a Landslide

In this lab, you will use a cardboard ramp with a sample of rocks on it to model a hillside. You will change the slope of the ramp and observe what happens to the rocks.

Hypothesis: I think that		that	rocks will have a		angle of
repose th	an		rocks will.		
Materials	s: cardboa	rd ramp (1 meter lo	ong), assortment of r	ocks, protractor, safety	goggles
Experime	nt Proced	lure:			
	From the assortment of rocks your teacher provides, select several of roughly the same size an arrange them at one end of a cardboard ramp. Record the approximate diameter of an average				
	•		o the nearest tenth o	• •	J
				ere the rocks are piled.	
	Hold the ramp steady at the point where the rocks begin to slide down the ramp.				
4. H	Have a partner use a protractor to measure the angle between the base and the ramp. Record this angle in your table. Then lift the end of the ramp higher until all the rocks slide down.				
	_	·		, -	
	•	•		s, until you have observ	•
Rock Size		Rock Diameter (tenth of cm)	Angle of Repose (degrees)	Other things	we noticed
Sm	all				
Medium					
Lar	ge				
Mixed Sizes					
Conclusio		ne steepness of a hi	ill have on rocks' mo	vement? Explain about s	small, large, and
What eff					
What eff					
What eff					