Homemade Roller Coaster: Student Data Sheet

1.	How far did the marble roll the first time you released it on the track? If the marble ro off the track and onto the floor, record the distance as "off the track".	lls
2.	Why do you think the marble stopped at this position?	
3.	Record data from your trials below:	

	Height of Incline (cm)	Dist	tance the Mar	ble Traveled (	(cm)	Average Distance Marble Traveled (cm)
		Trial 1	Trial 2	Trial 3	Trial 4	
Incline 1						
Incline 2						

Incline 3						
Incline 4						
Incline 5						
4. Does	the stopping po	int of the mai	rble change as	s the height of	the incline cl	nanges?
5. Does	doubling the he	eight of the inc	cline make the	e marble go tv	wice as far?	
6. Expla	in any changes	you observed	l in potential a	and kinetic en	ergy?	
	lls or curves in hills and curves					ons? Do you

8.	Draw the types of loops you put in your track. Under each one tell whether the marble made it all the way around the loop or fell to the ground.
9.	What did you have to do to make the marble successfully complete the loop?
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