

ROLLER COASTER REQUIREMENTS

YOUR FULL NAMES:	 	
YOUR ROLLERCOASTER'S NAME:	 	

	CATEGORY	POINTS
1.	Structure is solid and reliable 10 points	101113
2.	Beams, columns and diagonal supports show quality when assembled 10 points	
3.	Height at least 100cm with at least one section of 40 cm wide 10 points. each 10	
	extra cm of height 5 extra points	
4.	Track length at least 200 cm. 10 points . Each 10 extra cm 2 extra points .	
5.	One loop 10 points . Each additional loop 5 extra points	
6.	6 turns 10 points. Each additional turn 2 extra points.	
7.	Varied materials- at least 1 funnel, 1 sharp curve, 1 wide curve, 1 loop, (5 points	
	each) 20 points	
8.	Advance features- every advance feature in worth 10 points. You must complete	
	all the other materials requirements first	
9.	Uphill section 10 points . (excluding the loop). Each additional section 5 extra	
	points.	
10	Duration- each second- 1 point!	
	Interesting name 5 points	
	Appealing decorations 5 points	
	Detailed planning that shows improvements 10 points	
	Beginning section allows for the marble from another roller coaster to be caught	
	easily and guided down the track safely 10 points	
15.	End section allows for the marble to be guided down the track safely to the next	
	rollercoaster 10 points	

TOTAL	POINTS:	

Comments:

Grading criteria – BEG (0-99 points), DEV (100-147 points), ACC (148-160 points), EXC (above 160 points). Your roller coaster should be exciting, reliable, and <u>take a long time for the marble to travel from</u> the start to the finish. Detail sketches of your plan with labels. Show what improvements have you made (10 points): Trial #1_____ Trial #4_____ Trial #2_____ Trial #5_____ Trial # 3_____ Trial #6_____

Average time_____ (showing improvement?)

Average time _____ (add all and divide by 3).