

What makes roller coasters go so fast?

Name:

Collisions Experiments!

Always release the Change the number of Bumper Marbles on the track:		Did the Hill Marble get eaten? (It's ok if the Bumper Marbles got eaten.)			
"High" mark:	Trial 1	Trial 2	Trial 3	Trial 4	
→ High					
44 cm 32 cm	eaten	eaten	eaten	eaten	
	safe	safe	safe	safe	
→ High					
44 cm 32 cm 20 cm	eaten	eaten	eaten	eaten	
	safe	safe	safe	safe	

COLLISIONS RESULTS: Adding more Bumper Marbles (always / sometimes / never) kept the Hill Marble from getting eaten. Why do you think this happens? Explain your results in terms of energy:

Mystery science

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