



Name(s)	Project Number
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	51510
Project Title	
Kinetic Energy	
Objectives/Goals Abstract	
My project was to determine if weight distribution inside a cylinder affected the speed of the cylinder while traveling down a slope.	
Methods/Materials The speed of three cylinders was measured at the end of a 6 mete	er slone. One cylinder had no washers
The second cylinder had washers positioned along the perimeter of the cylinder. The third cylinder had washers stacked in the center of the cylinder. The speed in meters/second was measured 10 times each for	
all three cylinders. Results	
The cylinder with the washers stacked in the center traveled the fastest with an average speed of 1.99 m/s.	
The cylinder with washers positioned along the perimeter traveled an average speed of 1.75 m/s. The cylinder with no washers traveled the slowest with an average speed of 1.72 m/s.	
Conclusions/Discussion	
My conclusion is that all the cylinders had the same potential kind the washers positioned along the perimeter used more of its origin rolling. The cylinder with the washers stacked in the center had r available at the 6 meter mark which resulted in a faster speed. The mass, therefore less original potential kinetic energy at the top of	nal kinetic energy just to get the cylinder more translational kinetic energy he cylinder with no washers had less
Summary Statement	the speed of a series is series in the
My project was about how weight placement in a cylinder affects	s the speed of a cylinder when in motion.
Help Received	
Father helped roll cylinders down driveway.	