

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Elizabeth (Bethie) M. Conlan	CUUUC
	30200
Project Title	
Acceleration Factors	
Abstract	
Objectives/Goals	1 1:66
diameters and different materials.	rent masses and different
Methods/Materials	
To test my hypothesis I tested three balls on a 4.5 meter wooden plank. I measured the acceleration at three different increments on the board to see if the acceleration between the balls remained constant.	
tested each ball at each increment on the board ten times. I raised the ramp from a 10 degree angle to a 30	
degree angle and repeated the test.	
The acceleration remained constant for each ball type for each angle. The only differences in the	
acceleration was due to human error in recording the time.	
Conclusions/Discussion The acceleration graphs showed the acceleration remained constant for each ba	ll type and angle of the
ramp. Expansions on this project could include further studies on moments of inertia or test how different	
friction factors would effect the experiment.	
Summary Statement	1 1 2 2
To see if acceleration remains constant between three different balls, with diffe diameters and different materials.	rent masses and different
Help Received	
Father helped construct ramp using power tools.	