

## CALIFORNIA STATE SCIENCE FAIR 2006 PROJECT SUMMARY

Name(s)	Project Number
Salvador Eligio; Elio Gonzalez; Lily Leighton	J1506
Project Title	
Let It Roll	
Abstract	
Objectives/Goals	
Our objective was to find out if the diameter of a PVC pipe would e travelling a pre-set length of 6'. We were	effect the speed of a small metal ball
exploring the relationship of friction and gravity inside the pipe. Methods/Materials	
We constructed a testing board made of plywood and three 6' length of the following diameters: 1/2", 1", and 2". We attached the pipes sure they were parallel. We propped up one end of the board to cre simultaneously releasing one ball into each pipe and recording the to other end. We did this ten times and then averaged the times for ea	to the board with metal straps making eate a slope. We ran a series of tests time it took the ball to come out at the
<b>Results</b> We found out that the ball rolled fastest in the 2" pipe, second faste pipe.	st in the 1" pipe and slowest in the 1/2"
<b>Conclusions/Discussion</b> We concluded that this happened because in the 2" pipe the ball had caused less friction than in the other smaller diameter pipes. In the smaller diameter pipes there was more conta the ball and the pipe causing more friction which slowed the ball.	
Summary Statement	
Our project is about gravity and friction working against each other	
Help Received	
Salvador Garcia was part of our original team. Our teacher helped u classmate, Lucero Jimenez, help us decorate the board.	as with editing the conclusion and our