

CALIFORNIA STATE SCIENCE FAIR 2008 PROJECT SUMMARY

Name(s)	Project Number
Amanda B. Castilo	10000
	JUZUO
Project Title	
Goal! Can You Handle the Pressure?	
Abstract	
Objectives/Goals Show how different inflation levels affect the distance that a soccer hall will tra	vel when it is kicked
Methods/Materials	
First, we made a large pendulum using 2 ten foot ladders and a sledgehammer taped onto 1# electrical metallic tubing. The ball was hit ten times for each air pressure; 3 psi, 8 psi, 14 psi. Record the distance at where the ball first hits the ground.	
Results	1 1 / 11 /
of 25#-0# to 30#-0.#	
Conclusions/Discussion The ideal air pressure for a second hell is 6.8 pci. Higher inflation levels may make the hell travel further	
but it doesn#t make a big difference. I think acceleration is a bigger factor in m	ake the ball travel further aking the ball travel
further.	C
Summany Statement	
Changes in inflation levels does not adversely affect the distance a soccer ball to	ravels when kicked
	a vois whom hiered.
Help Received	
Mr. Dettmer, advice on how to eliminate variables.; Dad helped me set up the p measurements; Sister retrieved balls hit.	endulum ; Mom recorded