

CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

	Ductor A Name have
Name(s)	Project Number
Sage Nguyen	
	35485
Project Title	
Bounce!	
	\sim
	\sim
Abstract (
Objectives/Goals	
Does the brand or type of tennis ball effect its bounce height and durability on a that tennis balls bounce height and durability will be affected by the type of ten	a hard ourt? I hypothesize
tennis ball will not significantly affect its height or durability.	his bail used. The brand bi
Methods/Materials	
Materials List: Penn Extra Duty tennis balls, Wilson Extra Duty tennis balls,	Regular Duty tennis
balls, Wilson Regular Duty tennis balls, Measuring paper, Racquet, Ren, Tenni	s backboard.
1)Record time, temperature and humidity before data collection starts.	
2) Bounce height measured with a ball from each new can, four total. This is ac measuring paper to a wall and videotaping the ball in slow notion being dropped.	ccomplished by taping
measuring paper to a wall and videotaping the ball in sow notion being dropped	ed from a height of 60
inches. By videotaping it, a more accurate measurement will be achieved. 3) Next, each of the same balls will be hit against a wall 75 times.	
4) Repeat step #2 with the now #used# balls.	
5)The balls are hit another 75 times against the wall.	
6)Repeat step #2 again.	
7)Review the video to record the bounde heights.	
Posulte V	
With the balls brand new, Penn Regular had the highest average bounce height of 37 inches. After 75 hits, Penn Extra Duty had the highest average bounce height of 36 inches. After 150 hits, Penn Extra Duty still had the highest bounce height of 35 33 inches.	
Penn Extra Duty had the highest average bounce height of 36 inches. After 150 hits, Penn Extra Duty still	
had the highest bounce height of 35 33 noches.	
Conclusions/Discussion I conclude that the Penn Regular Duty and the Pern Extra Duty tennis balls have a higher bounce than the	
Wilson Regular and Extra Duty also conclude that the type of tennis ball also affects the height and	
durability. My hypothesis was accordent reparding the brand of tennis ball not affecting bounce height and	
Wilson Regular and Extra Duty i also conclude that the type of tennis ball also affects the height and durability. My hypothesis was incorrect regarding the brand of tennis ball not affecting bounce height and durability but was correct in regarding to the type of ball affecting bounce height and durability.	
Summary Statement	
My projects was to determine whether the brand or type of tennis balls have an effect on its bounce height	
and durability	
Help Received	
My dad helped me record video of the ball drops and buy my materials; my mom helped me cut and	
layout my posterboard.	
a policio and	