

## CALIFORNIA STATE SCIENCE FAIR 2013 PROJECT SUMMARY

Name(s)	Project Number
Taryn Clark	11200
	J 1 2 9 9
Project Title	
Grip This Hand! Hand Position Impacts S	Strength
Abstroat	
Dbjectives/Goals	
This project examines hand position and how it affects grip struction	rength and muscle fatigue with repetative
Alethods/Materials	
I used a Jamar hand dynamometer to measure grip strength in	a neutral, supinated, and pronated position.
Each position was tested multiple times in a rotating order. Results	
I found that 59% had the strongest grip strength in the neutral	position, 34% in the supinated, and 4.5% in
the pronated positions. There appeared to be an average 6.9%	drop in performance in all positions after
Conclusions/Discussion	
There were clear performance differences in grip strength dete	ermined by habd position.
ummary Statement	
This project examines hand position and how it affects grip st	rength and muscle fatigue with repetative
motion.	
Ielp Received	