

CALIFORNIA STATE SCIENCE FAIR 2003 PROJECT SUMMARY

Name(s)	Project Number
Cullen M. Wilson	
Project Title	
Jump For It:	
Objectives/Goals Abstract	
The objective of this study was to see if plyometric drop jumping do	one twice weekly over a five week
period could increase the vertical jump of similarly highly trained at Methods/Materials	thletes.
Nine members (8 subjects, 1 control) of a competitive 13 yr. old soc	ccer team were tested to see if drop
jumping could increase their vertical jump. Vertical jump was measured before and after the test period,	
which was twice weekly for 5 weeks. Vertical jump was calculated height (arms raised above their head) and subtracted from their jum	by measuring each subject's standing
jumps measured at the peak of the jump). Subjects were instructed how to drop jump from a 12"	
platform, and each session included a running warm-up and 3 sets of	f 10 repetitions of drop jumps. All
Results	Sut 5 times weekly.
Vertical jump increased at least 3/4" in all test subjects. Subjects with the greatest increase in vertical	
jump at the end of the study were those with the lowest vertical jump control lost over	p in the beginning of the study. The
1 3/4" in vertical jump, which I did not expect.	
Conclusions/Discussion	as vartical jump over a relatively
short period of time in highly trained athletes, without resulting in ir	njury. My coach has agreed to include
drop jumping in our workouts as a result of this study.	
Summary Statement	
This project tested and proved the effectiveness of a plyometric exer	rcise, drop jumping, on increasing the
vertical jump of highly trained 13 year old athletes.	,
Help Received	1
My mother helped me lay out the board; my soccer team helped by being participants.	