

CALIFORNIA STATE SCIENCE FAIR 2013 PROJECT SUMMARY

Name(s)	Project Number
Evan M. Green	J0114
roject Title Just Wright for Flight	
Sust wright for Fight	
Abstrac	ct
The goal for this project was to find out if golf ball di increase its aerodynamics efficiency to a point which performance as flight distance and time aloft. Iethods/Materials I used 1" thick R-Max foam insulation as the raw mat ran 50 indoor trials with the glider as my control grou concave dimples on the top surface of the glider. I the	mpling on the top surface of delta wing glider can affects measurable performance. I defined terial to build a delta wing glider of my own design. I up. Next, I used a 1/2" drill bit to create standard en repeated 50 more trials according to protocol for
my experimental group. esults The data showed that the dimpled glider had a 23.9% average time aloft decreased by 5.5%. onclusions/Discussion I had expected an increase in flight distance due to wl effect'. In simple terms, dimpling decreases turbulent golf ball and my glider to fly farther. The unexpected variable. The short flight times were difficult to meas	increase in average flight distance; however, the hat physicists refer to as the "golf ball dimpling airflow and therefore reduces air friction, enabling a decrease in time aloft is most likely due to a human ure accurately with a stopwatch.
ummary Statamont	
I experimented to determine the effects of golf ball di	mpling on the performance of a delta wing glider.
elp Received	
Mother assisted with timing of flight trials, Father hel	ped with constructing launcher(that was not used)