CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
W. Douglas Liu	
	34633
Project Title	$\langle \rangle$
Windmill Blade Efficiency	
	$h \to 0$
Abstract	
Objectives/Goals	
My objective is to determine which number of blades on a windmill would gen	etate the most electricity. I
Will test the windmill with 2, 3, 4 blades.	\bigcirc
Build a stand to support the homemade windmill heads of 2, 3, 4 blades respect	Nyoly. Take the two blade
head and put it on the stand. Connect the multimeter to the motor Put a box fa	wo feet away from the
stand. Set the speed on the fan to mode 3 and within five seconds record the hi	shest voltage. Do the same
to the 3 and 4 blades. Repeat the experiment three times.	
The 4 blade windmill generated the most electricity while the 2 bade windmill	generated the least
electricity.	generated the least
Conclusions/Discussion	
My conclusion is that the 4 blade windmill generates the most electricity becau	se it catches the most wind.
The number of blades can change the output of a windmin. In windy areas setting would have a straight would ha	ing up a wind turbine
Eco-friendly	but carbon dioxide and is
Summour Stationant	
My project is a test whether different number of blodes on a windmill will offe	at the output of electricity
1 using 2 3 and 4 branes	ect the output of electricity
Help Received	
My mother helped me buy the materials. Mr. Rowe helped me make the windn	nill stand. Ms. Zephyr
pointed out some grammar mistakes	