

## CALIFORNIA STATE SCIENCE FAIR 2012 PROJECT SUMMARY

Name(s)	Project Number
Evan T. Clark	J0106
Project Title	
Can the Wind Really Work for You?	
Objectives/Goals Abstract	
The objective of my project was to find out what type of rotor design on a wind wind energy. My hypothesis was that I thought the rotors that were rectangular opposite directions would generate the most wind energy.	d turbine generates the most in shape and curved in
Methods/Materials Seven different rotor designs were made using bendable straws, paper clips, pa designs were: rectangular curved clockwise, rectangular curved counter clockw opposite directions, rounded, serrated, zigzag, and angled. The rotor designs w was made from a 1 L. plastic bottle, 500 mL. plastic bottle with cap, bendable s clips, metal washers, and metal key chains. Using a small table fan, each rotor see how much weight it could carry.	per, tape, and glue. The vise, rectangular curved in ere tested on a turbine that straws, strings, tape, paper was tested three times to
Results	<b>1</b> • • •
The results consistently showed that the rotors that were rectangular and curved produced the most energy	d in opposite directions
Conclusions/Discussion	
My conclusion is that the design of a rotor does make a difference in how much Curving the rotors in opposite directions produces a greater amount of energy to or even curving them in the same direction.	h energy is produced. than not curving the rotors
Summary Statement	
My project tested different rotor designs to see which generated the most energy	gy.
Help Received	
My dad helped me drill holes in the bottles and my mom helped me with the bo	oard.