



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Mac P. Delaney	Project Number J0105
Project Title Supreme Windmill Turbine Design	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals My goal with this project was to find the best windmill turbine blade by varying the width of the blade, and the inner and outer angles. I believe that the widest blade will be the fastest; the best angles will be both angles at sixty degrees.</p> <p>Methods/Materials To setup my project I had to construct a windmill with special blades, I used K'nex for the base, and I made wooden blades with width attachments for one set, and angle adjustments for another set.</p> <p>Results I found that the medium width worked the best because it increased surface area without adding too much weight; the fastest angles were both at sixty degrees.</p> <p>Conclusions/Discussion More surface area seemed best until too much weight was added, the best angles were the ones facing the wind the most; next time I should combine to test for the inner and outer angles with the width.</p>	
Summary Statement My project tested for the best windmill blades varying the angles and widths of the blades.	
Help Received My father helped with the construction the windmill blades.	