



**CALIFORNIA STATE SCIENCE FAIR
2002 PROJECT SUMMARY**

Name(s) Michelle Lynn De Young	Project Number J1111
Project Title The Destruction of Acid Rain	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The objective of my project was to see what sealant could protect marble the best from acid rain.</p> <p>Methods/Materials I coated marble pieces with different sealants. I put 3 marble pieces into each plastic container and poured dilute sulfuric acid (which was to mimic acid rain) into each container. I determined whether the marble was dissolving by measuring the pH with pH paper. If it was dissolving then the pH would increase as marble is a base. My different sealants where: Stone+Tile Sealer Finish, Kiwi Wet Proof, and Gel Gloss. I also had two controls which where marble in water and marble in dilute sulfuric acid with no sealant on the marble.</p> <p>Results The acid did dissolve the marble which I was able to see by the increase in pH. All three of the sealants made the marble dissolve more slowly. Of the three sealants Kiwi Wet Proof, which is a waterproofing product for leather, worked the best.</p> <p>Conclusions/Discussion My conculsion is that you can protect marble from acid rain by using a sealant on the surface.</p>	
Summary Statement My project is about protecting marble from acid rain.	
Help Received Mother helped understand pH and acid base chemistry, Dad got sulfuric acid and pH paper.	