



CALIFORNIA STATE SCIENCE FAIR  
2002 PROJECT SUMMARY

<b>Name(s)</b> Michelle Lynn De Young	<b>Project Number</b>  22336
<b>Project Title</b> The Destruction of Acid Rain	
<b>Objectives/Goals</b> The objective of my project was to see what sealant could protect marble the best from acid rain. <b>Abstract</b> <b>Methods/Materials</b> 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. <b>Results</b> 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. <b>Conclusions/Discussion</b> My conculsion is that you can protect marble from acid rain by using a sealant on the surface.	
<b>Summary Statement</b> My project is about protecting marble from acid rain.	
<b>Help Received</b> Mother helped understand pH and acid base chemistry, Dad got sulfuric acid and pH paper.	