

CALIFORNIA STATE SCIENCE FAIR 2007 PROJECT SUMMARY

Name(s)	Project Number
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Project Title	
The Effect of Lacquer on Corrosion Prevention	
Abstract	
Objectives/Goals	
This project determined if lacquer, clear fingernail polish, prevents corrosion corrosion on copper, iron, aluminum, and steel.	n or reduces the rate of
Methods/Materials	
Four samples of each metal were obtained. Two were coated with clear fing	
were left uncoated. The weights of all metals samples were then measured. A coated and uncoated sample were each placed in solutions of salt water and tap water. Weekly, the samples were reweighed and	
observations were recorded. Results	
The rate of corrosion was determined by a change in the weight of the sample, due to oxidation of the	
metal, over time. A comparison of these rates as well as visual comparisons were made between the	
coated and uncoated samples for each metal in both solutions. Conclusions/Discussion	
When compared to the uncoated metals, the lacquer coating was good at pre	
samples and was shown to significantly inhibit corrosion of the iron and cop	oper samples.
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Summary Statement This project determines the effect of lacquer, clear fingernail polish, on the r	rates of corrosion of copper
iron, aluminum, and steel in salt water and tap water.	ates of correston of copper,
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Help Received	