



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Jacob R. Moe	Project Number J1227
Project Title Seal the Deal	
Abstract Objectives/Goals To determine which water sealant works the best on cedar and redwood. Methods/Materials Three different water sealants were tested on untreated cedar and redwood fencing boards. A control sample of each type of wood was also included. Two coats of the sealants were applied to each sample. The samples were then submerged in water for four days, weighing the samples every 12 hours to see how much water had been absorbed. Results The wood samples that were coated in Thompson's oil sealant had an average water absorption weight gain of 1.23 oz for the cedar samples and 6.5 oz for the redwood samples. With the Olympic oil sealant, the water absorption weight gain was 1.25 oz for the cedar wood samples and 1.18 oz for the redwood samples. Lastly, the results of the Olympic Water sealant was a water absorption weight gain of 1.2 oz for the cedar samples and 1.42 for the redwood samples. The cedar and redwood samples were then average to get the net results which showed that the Olympic Oil based sealant worked overall the best for both types wood. Conclusions/Discussion The results proved my hypothesis correct. The Olympic oil-based sealant on both the cedar and redwood fence boards worked the best to seal out the water.	
Summary Statement To find out which brand of water sealant protects the new wood the best.	
Help Received Dad helped gather supplies , cut the samples and paint the samples because my arm was in a cast.	