



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

Name(s) Avigael M. Aizenman	Project Number J0501
Project Title Investigating Mass Reduction in Pennies: Pennies and Acids	
Abstract Objectives/Goals My project was seeing how different Acids affect a pennies mass; this was done in order to verify the impact of acid rain. Methods/Materials Pennies were put in water (control) and three different acidic liquids for five weeks. Their mass was weighed weekly. Results The pennies in the water, lemon juice and vinegar did not have any significant changes. The pennies in the hydrochloric acid lost eighty three percent mass within five weeks! Conclusions/Discussion Hydrochloric acid has dramatic damaging effects on matter, dissolving more than three quarters of a pennies mass in about a month. In contrast, liquids like water, lemon juice and vinegar have very little effect. This study proves that much more attention should be devoted to reducing acid rain.	
Summary Statement My project was seeing how different acids affect a pennies mass; this was done in order to verify the impact of acid rain.	
Help Received Mrs.Kilkenny helped/supervised my project; my dad taught me how to use Excel; I used lab Equipment from Mission Hill Middle School borrowed from Sherri Kilkenny; My board was looked over by Nancy Sheriden, the Women coordinating the Santa Cruz Science Fair.	