



CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY

Name(s) Robin C. Cho	Project Number 34535
Project Title Voltage Vitality	
Abstract Objectives/Goals The Objective of this project is too see if more voltage will increase battery shelf life. My hypothesis is that the batteries with the larger voltage will last longer than a battery with the smaller voltage. Methods/Materials I used a type of battery called the Voltaic pile. I built two kinds of voltaic piles. a 1.5 volt and an 3 volt. The battery is built of pennies after 1982, cardboard, electrical tape, and 16 AWG solid wire. I tested each battery for 4 days, and measured the current voltage and voltage lost. I took the averages and found the averages lost per day for two types of batteries: a 1.5 volt and an 3. Results I found that The 1.5 battery lost was about 0.2946 and 3 volt lost about 0.4304 about 0.1 difference. So the two batteries loses about the same amount of voltage a day. Conclusions/Discussion In conclusion, my hypothesis was correct. The 3 volt battery lasted longer than the 1.5 volt battery. I found that the 1.5 volt lost 0.2946 compared to the 3 volt battery, 0.4304, The reason why it lasted longer is because the two batteries had about the same amount of decrease in voltage a day. So the batteries with more voltage will last longer than batteries with less voltage, but too much voltage could damage the appliance.	
Summary Statement The Project is to see if a difference in voltage will affect the battery's life in a shelf.	
Help Received Mom helped get materials. Mrs. Jones supervised my project. Mrs. Owen helped me put the board together	