



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Sera H. Aguirre	Project Number J0802
Project Title Is the Voltage Created by Lemon Batteries Usable Energy?	
Abstract Objectives/Goals Make a lemon operate a LED, a watch, and a small light bulb. Methods/Materials 4 galvanized nails 4 small copper wires about 2 inches 4 lemons 8 alligator clips a multimeter a watch a small light bulb a LED Results The lemons were able to operate the LED and watch, but not the small light bulb. Conclusions/Discussion The lemon was able to operate the LED and the watch because they had little resistance and required very little voltage. The light bulb didn't operate because it had too much resistance and too little current.	
Summary Statement Making a lemon operate small electronics.	
Help Received My dad helped me get the materials such as the copper wires, alligator clips, and the galvanized nails. My mom helped me get the lemons. My dad also helped me put the galvanized nails and copper wires into the lemons.	