



**CALIFORNIA STATE SCIENCE FAIR
2008 PROJECT SUMMARY**

Name(s) Tessa L. Shifflett	Project Number J0827
Project Title The Shock of Your Life!	
Objectives/Goals The goal of my project was to find out what gauge wire will have the least amount of power dropped at any length wire. This goal was important to me because it will really help out on the ROV team i am on.	
Abstract	
Methods/Materials My method was: measure the wires, cut the wire at the right lengths, make the light fixture, connect every thing together and get all my data. The materials i used were: a screw driver, a wire cutter, a tape measure, volt/amp meter, 200 ft. of 14 gauge wire, 200 ft. of 18 gauge wire, 200 ft. of 20 gauge wire, 200 ft. of 22 gauge wire, a 12 volt ROV battery, 60 watt light bulb, a light socket and a wood board.	
Results My resauts showed that the thicker the wire the less power is dropped.	
Summary Statement My project was to find out what gauge wire has the least amount of power dropped at any length wire.	
Help Received Mr. Mellenger helped with the background and was my mentor, Dad helped with the testing, Mom helped me fill out the applications.	