



**CALIFORNIA STATE SCIENCE FAIR  
2007 PROJECT SUMMARY**

<b>Name(s)</b> <b>James D. Warner</b>	<b>Project Number</b> <b>S0818</b>
<b>Project Title</b> <b>See the Sun, Measure the Power</b>	
<b>Abstract</b> <b>Objectives/Goals</b> I wanted to find out if using mirrors to reflect more sunlight onto a solar panel would cause the panel to produce more electricity? <b>Methods/Materials</b> I used a solar panel that is used in a car, 4 one foot square mirrors, a multi-meter that can measure volts and amps and a battery cable that plugged into the solar panel. I had myself and up to three other people holding the mirrors so that sunlight would be reflected over the entire panel from each of the mirrors. I recorded the maximum amount of amps/volts that occurred during each trial. <b>Results</b> I found that using mirrors to reflect more sunlight onto a solar panel causes the solar panel to create more electricity than sunlight alone. <b>Conclusions/Discussion</b> During the experiment the number of volts never exceeded 22 and it stayed there for most of the trials, the number of amps went up however with each mirror added, that is why my hypothesis was correct, if one half of an equation increases, the number it equals also increases.	
<b>Summary Statement</b> Finding out if mirrors can make a solar panel put out more electricity.	
<b>Help Received</b> Students at school along with my mom and dad held mirrors, got multi-meter from my science teacher Erin Vaccaro, my mom got me backing paper and payed for development of pictures, my dad took the pictures, my mom got me the solar panel.	