



**CALIFORNIA STATE SCIENCE FAIR
2005 PROJECT SUMMARY**

Name(s) Aaron Z. Kirschen	Project Number J0720
Project Title Solar Panel Power Booster	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals To show that reflectors can boost the electrical output of solar panels.</p> <p>Methods/Materials I used insulated wire to construct an electrical circuit. The circuit included a solar panel, an ammeter, and an automotive headlamp. I monitored the electrical output of the solar panel while varying the number of reflectors to see if adding more reflectors would increase the electrical output of the solar panel. I repeated the experiment 6 days in a row at the same time of day.</p> <p>Results As reflectors were placed around the solar panel, electrical output increased.</p> <p>Conclusions/Discussion My results supported my hypothesis that using reflectors to concentrate the sun's rays onto a solar panel would increase the electrical output of the solar panel. Using reflectors with solar panels can increase their effectiveness and lower the cost of this type of energy.</p>	
Summary Statement This project shows that reflectors can increase the energy output of solar panels.	
Help Received My dad helped with providing materials and setting up the electrical circuit for this experiment.	