



**CALIFORNIA STATE SCIENCE FAIR  
2008 PROJECT SUMMARY**

<b>Name(s)</b> <b>Zeke M. Lemann</b>	<b>Project Number</b> <b>J0914</b>
<b>Project Title</b> <b>Parabola Solar Ovens</b>	
<b>Abstract</b> <b>Objectives/Goals</b> My project was to determine what kind of mirrored parabola produces the most heat. <b>Methods/Materials</b> Three solar ovens were constructed each using a different parabola. One parabola was deep, one parabola was shallow, and one was in between deep and shallow. They all had the same amount of mylar surface area. <b>Results</b> The solar oven that was in between deep and shallow produced higher temperatures more quickly. <b>Conclusions/Discussion</b> My conclusion is that the middle oven did better because it had a focus that was more sheltered than that of the shallow oven and it had more solar collecting area than the deep oven.	
<b>Summary Statement</b> My project is about comparing different parabolic solar reflectors for heating efficiency.	
<b>Help Received</b> My mother typed parts of my log. My father helped me build the ovens. My classmates helped me take temperature readings. Got advice from Humboldt State University professor about validity.	