



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

Name(s) Lucca F. DeBiaso	Project Number J0204
Project Title Cooking with Solar Power	
Objectives/Goals My project was to test three different green house containers in a solar oven. My hypothesis was that the plastic container will hold the most heat in the solar oven.	
Abstract Methods/Materials Materials: 4 5-gallon buckets,several large rocks, 12 2 foot long stakes, 4 windshield sun shades, Duct tape: silver and black, 2 quart plastic container with lid, 2 quart glass container with lid, oven bag (specifically for cooking), 2 #beer can# cooking racks, 4 digital thermometers, water, 1 cup measuring cup, 4 small Dutch oven cooking pots, apple crisp.	
Results The glass container held and gained the heat in the most.	
Conclusions/Discussion While my results demonstrated that the glass container was the most efficient greenhouse container - achieving and retaining the highest temperature out of all the containers - they are not, however, 100% conclusive. The test needs futher repetition as well as for other factors - time of year/angle of the sun/ longer exposure/multiple-day tests - to be in play for more conclusive results.	
Summary Statement My project is about testing the efficiency of different greenhouse containers in a solar oven.	
Help Received Mom helped type report, dad helped make ovens and showed me how to make graphs using Exel, teacher (Mrs. Kelley) helped with registration as well as general support.	