



**CALIFORNIA STATE SCIENCE FAIR
2012 PROJECT SUMMARY**

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Project Title Oven Evolution	
<p style="text-align: center;">Abstract</p> <p>Objectives/Goals The experiment's objective is to find a more environmentally friendly household oven. To achieve that, the experiment will test four different ovens, three with different reflective materials, and a control oven that is all black. It is predicted that the oven with the aluminum reflective material will work more efficiently on heating up and heating up the meat.</p> <p>Methods/Materials The experiment uses many tools such as three different specialized thermometers, recycled pots holding the meat, environmentally friendly reflective materials, recycled boxes, and beef franks.</p> <p>Results The result of the testing were unexpected, and the hypothesis failed. The testing came in two parts; "Part One" testing done before Regional Screening, and "Part Two" testing conducted between Regional Screening and City Fair. "Part One" results were that the soda can oven works more efficiently for heat control, while the Mylar was the oven that worked more efficiently with meat. During "Part Two" of testing, the results shifted, and it was shown that the soda can oven worked more efficiently for both heating up the oven, and cooking the meat product.</p> <p>Conclusions/Discussion The experiment proves that you can use any recycled house hold object such as Soda Cans to make an everyday energy-efficient household oven. Doing this more often proves that we have the capability of using resources as recyclable materials to create a common tool.</p>	
Summary Statement Finding an energy efficient household oven.	
Help Received University of California San Diego Sustainabilty Center; Kristin Hansen (UCSD Sustainability Program)	