

CALIFORNIA STATE SCIENCE FAIR 2014 PROJECT SUMMARY

Name(s)	Project Number
William deBruynKops; Cooper Johnson	S0309
Project Title	
Maximizing the Efficiency of a Parabolic Solar Water Heater	
Objectives/Goals Abstract	
A solar water heater is designed that uses the properties of a parabola efficiency of this transfer through flow rate. If the flow rate of the systemperature of the system would increase at a faster rate. Methods/Materials	
A structure is created that includes a 4' x 8' mirrored acrylic sheet that copper pipe is positioned through the focal point of the parabola and v system.	
Results Each flow rate is tested by filling the system with 5 gallons of water a minutes, recording the temperature of the system at 5 minute intervals effective and heated the water to 112 degrees fahrenheit after 35 minute Conclusions/Discussion This proves the hypothesis is correct as the slowest flow rate was the	s. The slowest flow rate was most ites.
This proves the hypothesis is correct as the slowest now rate was the	most efficient in heating the water.
Summary Statement This project is designed to create a parabolic solar water heater and m device.	aximize the efficiency of this
Help Received Dad helped with construction and plumbing.	