

## CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number
Shaelyn P. Topolovec	J1525
	JIJZJ
Project Title	
Keepin' Cool	
Objectives/Goals Abstract	
The objective of this project is to determine what outside paint colors are be warmer depending on the climate) so that money and energy could be save	
Methods/Materials	
Seven siding pieces were cut 1'x 1' and were painted with different colors of paint. The wood siding was then attached to a scaled down wall built with R-13 fiberglass batt, wood, and drywall to simulate an exterior house wall. One at a time, each siding piece was attached to the small wall and then inserted into the center of an insulated box. A light bulb was used as a heat source on one side of the wall. Theremometers were used to measure the temperature in the 1 cubic foot of air space on each side of the small wall. The temperatures for each color were recorded every 5 minutes for 2 hours. <b>Results</b>	
Lighter siding colors always resulted in cooler interior temperatures. Darke hotter interior temperatures.	er siding colors resulted in
<b>Conclusions/Discussion</b> A house in a warmer climate would save money and energy painted a lighter color. A house in a cold climate would do better painted a darker color.	
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Summary Statement The purpose of this science project is to determine if the color of paint on the temperature inside a house.	the outside of a house can affect
Help Received	
Mother helped type and assemble board. Father helped build. Grandfather advised on computer research. Teacher acted as project advisor.	supplied materials. Sister