

CALIFORNIA STATE SCIENCE FAIR 2010 PROJECT SUMMARY

Name(s)	Project Number
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	S0837
Project Title	
Eco-Breeze	
Objectives/Cools Abstra	ct
Objectives/Goals To determine if solar-powered fans can cause enough	air circulation to decrease the ambient temperature
inside automobiles in warm climates.	
Methods/Materials	
Materials:	
DC Motor Cardboard Housing	
Solar panel	
A small fan	
Duck-tape	
solder gun	
Method-The Solar Fans were placed in the identical p	
of vehicles over a period of time. Everything fifteen r was taken and recorded, and subsequently graphed. T	
temperature so that it could be compared and contrast	
effectiveness of our contraption.	
Results	
Within a time span of two hours and thirty minutes, the	
temperature by five degrees Celsius, the Honda Acco	rd's by three degrees Celsius, and the Honda Pilot's
by 2 degrees Celsius. Conclusions/Discussion	
Solar-powered fans can cause enough air circulation	to decrease the ambient temperature inside
automobiles in warm climates.	
Summary Statement	
Utilizing a reusable natural resource to decrease the a warm climates.	mbiant temperature in the interior of a vehicle in
Help Received	
Teacher helped conduct experiments.	