

CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s)	Project Number
Kayla Billiou	
	J1604
Project Title	
Suck It Up!	
Abstract	
I wanted to find out how temperature affects a plant's ability to transport nutrie learned that transpiration and respiration increase as temperature increases. I the temperature would transport the most nutrients because the plants in the other or too cold. Methods/Materials Ten white carnations were placed in each of three mugs with 200 ml of water.	ents. From my research, I hought the plants in room temperatures were too hot Then 1/4 teaspoon of food
coloring was added into each mug. Each mug was placed in a box in a different thermometer in each mug. A plant light was placed over each box and observa- were made every few hours recording the results.	nt temperature zone with a tions and measurements
Results The results showed that flowers which were in 110 degrees Fahrenheit soaked However, the petals of the flowers dried out. The flowers in the 68 degrees Fa more water than the flowers at room temperature (78 degrees Fahrenheit). Conclusions/Discussion	up the most water. hrenheit transported a little
The hypothesis was incorrect because it was thought that the flowers in room the most nutrients, but actually, the flowers in the heated temperature soaked uniformation is important for growing plants at the right temperature so they was repeated, the flowers would be placed in solutions 10 degrees apart to find temperature change would affect the plant's ability to transport nutrients.	temperature would transport up the most water. This ill be healthy. If this project d out how much the slightest
Summary Statement The purpose of this project was to determine if different temperatures would a transport nutrients; the data showed that plants exposed to warmer temperature	ffect a plant's ability to es soaked up the most water.
Help Received	
Mother helped type report	