



**CALIFORNIA STATE SCIENCE FAIR  
2005 PROJECT SUMMARY**

<b>Name(s)</b> <b>Lauren J. Young</b>	<b>Project Number</b> <b>J1539</b>
<b>Project Title</b> <b>Don't Wanna Have Cold Feet? Spare the Heat!</b>	
<b>Abstract</b> <b>Objectives/Goals</b> The objective of my experiment was to determine which type of insulation maintains the temperature of warm and cool water the longest. <b>Methods/Materials</b> Six identical jars were obtained, five were wrapped with different types of insulation and one was left unwrapped as a control. Water was heated to ninety-two degrees fahrenheit and added to each of the jars, the change in temperature was recorded every five minutes for forty-five minutes. This test was repeated three times. The same procedure was used with water cooled to forty degrees fahrenheit. This test was also repeated three times. <b>Results</b> The jar wrapped with the foam material held the temperature closest to the original starting point. The control without any insulation showed the greatest change in temperature. <b>Conclusions/Discussion</b> My conclusion was that of all the materials tested the foam worked as the best insulator for maintaining temperature for both warm and cold water.	
<b>Summary Statement</b> This project studied different insulation materials and their effect on warm and cold water.	
<b>Help Received</b> California Pretzel donated thermometers and different examples of insulation.	