

## CALIFORNIA STATE SCIENCE FAIR 2005 PROJECT SUMMARY

Name(s) Nathan M. Jessup	Project Number J1516
Project Title Don't Hesitate to Insulate	
Abstract	
<ul> <li>Objectives/Goals <ul> <li>Different kinds of fabrics are being used today to create insulating clothing to protect humans from the elements of nature. Wool fibers h long history of being one of the best fabrics for insulating. However, technology has created new man made fabrics that are replacing the u wool.</li> </ul> </li> <li>Methods/Materials <ul> <li>The insulating abilities of wool, and five other fabrics, cotton, linen, acrylic, polyester fleece, and vinyl were tested in this experimen. The hypothesis of this experiment was that wool would keep the wate temperature the warmest, for the longest amount of time. Each of the fabrics were wrapped around glass jars, and hot water was poured into jar. At 30 minute intervals, the water in the six fabric covered jars were tested. At the 180 minute mark, the water in the wool covered jar and water in the polyester fleece covered jar were the same temperature.</li> </ul> </li> <li>Results <ul> <li>The results of this experiment were expected and unexpected.</li> </ul> </li> <li>Conclusions/Discussion</li> <li>Wool did prove to keep the heat from escaping the jar for a longer per polyester fleece did just as well.</li> </ul>	new ise of nt. er six o the re the
<b>Summary Statement</b> The insulating abilities of wool, and five other fabrics were compared	l.
Help Received Parents helped in proof reading and editing.	