



**CALIFORNIA STATE SCIENCE FAIR
2014 PROJECT SUMMARY**

Name(s) Lindsey Jo Woods	Project Number J1329
Project Title The Effect of Fabric Content on Heat Absorption	
Abstract Objectives/Goals The main objective of this science project was to find out how fabric content might have an effect on heat absorption of different fabrics. Methods/Materials Six fabrics were used, each made of a different content. They were cotton, linen, silk, rayon, polyester and a cotton-polyester blend. An ice cube was weighed, then covered with a fabric square and placed under a 100 watt heat lamp for ten minutes. Then the cube was weighed again and the percentage melted was calculated for each fabric content. Results The results showed that cotton fabric absorbed the least amount of heat. The synthetic fabric, polyester, absorbed the most heat. Conclusions/Discussion This information about fabric content and heat absorption could be useful in choosing clothing for comfort in different seasons. It was clearly shown that natural fibers absorb less heat than artificial or synthetic fibers.	
Summary Statement This project tested natural and synthetic fibers to see how much heat they absorb.	
Help Received Grandmother provided resources.	