

## CALIFORNIA STATE SCIENCE FAIR 2015 PROJECT SUMMARY

Name(s)	Project Number
Sarah E. Scherzinger	J2030
	JZUJU
Project Title	
Modern Insulators	
Abstract	
Objectives/Goals	
The objective of this experiment was to find out which commonly used, modern most heat.	n insulation retains the
Methods/Materials	
To complete this experiment three different types of modern insulation were cut, and inserted into cardboard file boxes. The insulations used were fiberglass, polystyrene board, and polyurethane foam. One file box was left without insulation to serve as the control. The file boxes were brought inside, so they could rise to a internal temperature of over 70⁰F. Then the boxes were moved outside, into a colder environment in order to observe the internal temperature fall to that of the external. The internal temperature of each box was taken every 15 minutes, and recorded. <b>Results</b> The results of this project showed that polystyrene board rateined the most heat over time, while	
The results of this project showed that polystyrene board retained the most heat fiberglass retained the least.	over time, while
<b>Conclusions/Discussion</b> In conclusion, the data showed that polystyrene retained the most heat the majority of the time. It also showed that though fiberglass is the most commonly used insulation in modern structures, it does not retain heat as well as the other 2 insulations tested.	
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Summary Statement This project was conducted to determine which commonly used insulation wou	ld retain the most heat
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Help Received	
My father supported me with the construction of the boxes.	