



**CALIFORNIA STATE SCIENCE FAIR
2007 PROJECT SUMMARY**

Name(s) Amanda C. Imfeld	Project Number J1210
Project Title The Effects of Different Window Shades on Energy Consumption	
Abstract Objectives/Goals My project was to determine what type of blinds would hold out radiant heat. The types of blinds I used were Vinyl Blind, Roller shade, Sun Screen and Aluminum Foil. I believed that the Vinyl Blinds would hold out the most radiant heat. Methods/Materials A box made of insulated wood, would my type of glass, single Pane. For example: I would place the Vinyl blind in the mount, put the Single Pane glass in the slot and then place the heat lamp 6 inches from the glass for five minutes checking the temperature every minute. I would do this for each blind type. Results Of the four different types of blinds the Aluminum Foil did the best at holding out radiant heat. The Sun Screen did the second best, the Vinyl blinds did second best, and the Roller Shade did the worst of the four. Conclusions/Discussion People who would like to buy new blinds for their home should pay more attention to the energy efficiency of the blinds and not the looks or style. I would suggest buying Sun Screen because it would insulate your home best although it was second it allows you to see through and still have some privacy.	
Summary Statement My project was about trying to figure out what type of blinds would hold out radiant heat.	
Help Received My mom helped type up my report. My dad got me the materials for the testing and showed me how to do the testing. One of my dad's co-workers made the insulated wood box for me. Dan Notrica, from Phiefer Wire gave me the sun screen to do the testing with and Renyold's Wrap Foil provided me with	