



**CALIFORNIA STATE SCIENCE FAIR
2006 PROJECT SUMMARY**

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| Name(s) Amanda C. Imfeld | Project Number J1516 |
| Project Title The Effects of Different Glazing Types on Energy Consumption | |
| Abstract Objectives/Goals My project was to determine what type of glass would hold out radiant heat and cold air. The Types of glass I used were single pane, double pane , and Low E. I believed the Low E would hold out the most radiant heat and cold air Methods/Materials A box made of insulated wood, would hold each type of glass. For example.. I would place the Low E glass in the slot, then place six inches away from a heat lamp. For 5 minutes, checking the temperature every minute. I would do this for each glazing type. For the cold conditions I would put the galss in the slot and then put it in a large walk in freezer for five minutes checking the temperature every minute. Each glazing type will be tested 10 times in each condition. Results Of the three different type of galzing the Low E did the best at holding out radiant heat and cold air. The Double Pane did the second best and the Single Pane the worst of the three. Conclusions/Discussion People who would like to buy new windows for their home should pay more attention to the type coating on the glass and not number of panes. I would suggest buying Low E because it would insulate your home the best. | |
| Summary Statement My project was about trying to figure out what type of glass would hold out radiant heat and cold air the best. | |
| Help Received My mom helped me type report. Dad aquired materials. Also helped make the insulated wood box | |