

Ashley Motley

Junior Division Physics

How Heat Transfers

My project is " How Heat Transfers ". The Question is " Which material will collect the most heat ?" My Hypothesis was that glass would be the hottest out of all five materials. What the researcher did was built a box to put the following materials in glass, copper, steel, wood , and aluminum. Then put a light bulb in the back of the box. The materials were half in the box half out. The researcher put an extension cord on the outside of the box so the box's light bulb could turn on. The researcher turned on the light bulb on for six hours. After the six hours was over, the researcher checked the temperature with an Infrared Thermometer, three different days, and wrote down the temperature. The data did not support the Hypothesis. It was really Copper that was the hottest. Glass and wood are poor conductors of heat. They are really insulators of heat. A good conductor of heat is iron, steel and copper. In this project the researcher learned what a better conductor of heat is.