

Wyatt Vick

*How Does Color Affect Heating by Absorption of Light?*

The goal of this particular project is to test how color affects the amount of light absorbed and then transferred to heat when exposed in sunlight and the light from an incandescent light bulb. It is believed that the lighter colors will absorb the most light because the light will pass through quicker. It is also believed that the darker colors will absorb the least amount of light because the light does not pass through the color. The experiment included a set of identical glass jars containing different colors of construction paper, a drill was used; therefore, adult supervision was required for safety. A timer and thermometer was also used in the experiment. In conclusion, the hypothesis was backwards. The darker colors clearly absorbed more light and therefore warmed up more than the lighter colors. The difference was significant enough to suggest wearing darker colors if you are cold and lighter colors in the summer to stay cool.