



# How hot does it get?



I SHOULD HAVE WORN A **LIGHTER** COLORED SHIRT.

## What you need:

SHEETS OF THIN CRAFT FOAM IN MANY COLORS (WHITE AND BLACK ARE ESSENTIAL!)  
GLASS OF ICE

## What to do:

PLACE THE FOAM SHEETS FLAT ON A DECK OR SIDEWALK ON A SUNNY DAY.  
PUT A SINGLE PIECE OF ICE ON EACH SHEET AND RECORD THE TIME.  
CHECK BACK IN A FEW MINUTES AND OBSERVE WHICH OF THE ICE CUBES HAVE MELTED THE FASTEST AND SLOWEST.

## What's going on?

DARK PIGMENTS ARE MUCH BETTER AT ABSORBING LIGHT THAN LIGHTER COLORED PIGMENTS. ONCE ABSORBED, THIS LIGHT ENERGY IS CONVERTED INTO HEAT ENERGY. THEREFORE, THE ICE CUBES ON THE DARKER SHEETS SHOULD HAVE MELTED FASTER. THE LIGHTER COLORED SHEETS SHOULD HAVE MELTED THE LEAST AS LIGHT BOUNCES OFF OF THESE PIGMENTS MORE EASILY AND DOES NOT GET AS HOT AS THE DARKER PIGMENTS.