# WHICH IS HOTTER? If you put different colored shirts in the sun for around 45 minutes on the same day, then which shirt would be the hottest?

#### Abstract

Alighter colored shirt would be cooler than a darker colored shirt on a regular day.

#### Background Research

surface would reflect light while a black surface would absorb the light. So, I used this as the basis for my experiment and assumed that a black shirt would be hotter on a regular day, as black shirt absorb light.

First, I put the 5 colored shirts (Red, Black, Green, Yellow, had heard that a white White) on a badminton net so that it could warm up. After that, I checked the temperature of the shirts every 15 minutes. I did this for an hour. At the end I checked the temperatures of the shirts and saw that the black shirt was the hottest and the white shirt was the coolest.

### Procedures

Keep 4-5 shirts on a table outside. Check every 5 minutes to see if a shadow has fell on the clothes, it should not. Every 15 minutes check the temperature. Do this for 1 hour. Remember to record the temperature to see which shirt would be the hottest at the end of 1 hour.

## Experiment

### Conclusions

The black shirt did turn out to be the hottest and the white shirt turned out to be the coolest.

References

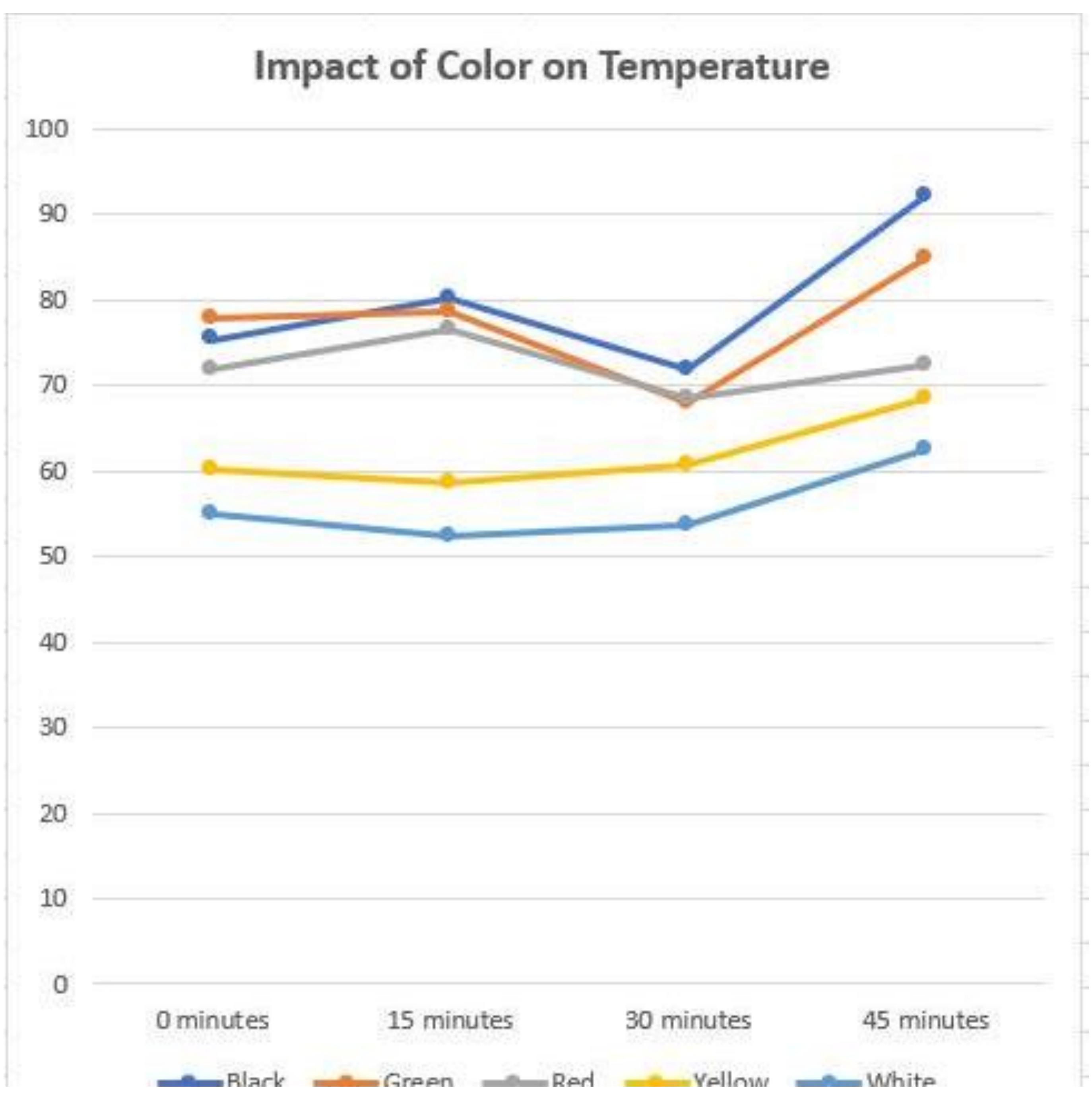
\_ink #1

Link #2

Acknowledgements

I would like to thank my brother for helping me do my experiment.

Data Graph



	-arture	after 15	Temparture af -ter 30 minutes	Te -te
Black Shirt	75.4°F	80.1°F	72.0°F	92.1°
<u>Green Shirt</u>	77.9°F	78.6°F Click to add text	68.0°F	84.8°
<u>Red Shirt</u>	72.0°F	76.5°F	68.5°F	75.4°
Yellow Shirt	60.3°F	58.6°F	60.6°F	68.5°
<u>White Shirt</u>	54.9°F	52.3°F	53.6°F	62.6°

# Data Table

