

# STUDENT SEND-HOME ACTIVITY

Name: \_\_\_\_\_

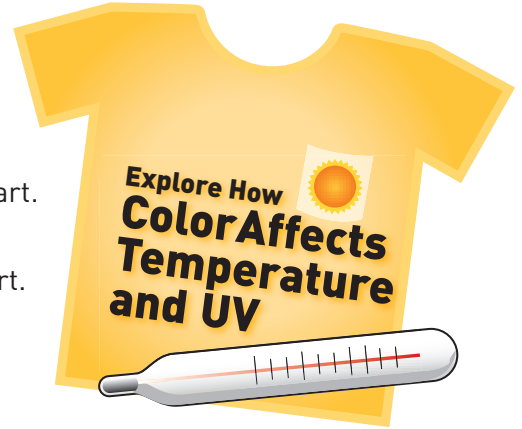
Try this activity at home outdoors on a sunny day to test how the color of clothing affects temperature. Protect yourself with sunscreen, sunglasses, and a hat while you're outside.

## What You Need:

- Thermometer
- Four T-shirts made of the same type of fabric (all cotton or cotton blend) and about the same weight in the following colors: black, blue (not light blue), yellow, white

## What to Do:

- Predict which T-shirts will absorb the most and least heat after 15 minutes of sun exposure.
- Place the black T-shirt in the sun.
- Record the starting temperature of the thermometer on the chart.
- Place the thermometer completely underneath the T-shirt.
- Wait 15 minutes. Check the temperature and record on the chart.
- Repeat with the blue, yellow, and white T-shirts.



## Predictions and Results

Which T-shirt gets hottest in the sun?

Your Prediction: \_\_\_\_\_ Results from the Chart: \_\_\_\_\_

Which T-shirt stays coolest in the sun?

Your Prediction: \_\_\_\_\_ Results from the Chart: \_\_\_\_\_

T-shirt Color	Starting Temp.	Temp. After Being in Sun	Difference
BLACK			
BLUE			
YELLOW			
WHITE			

Use the data from your experiment to complete the chart below:

Dark colors absorb: <input type="checkbox"/> more heat <input type="checkbox"/> less heat <input checked="" type="checkbox"/> more UV <input type="checkbox"/> less UV	Light colors absorb: <input type="checkbox"/> more heat <input type="checkbox"/> less heat <input type="checkbox"/> more UV <input checked="" type="checkbox"/> less UV
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## Summary

Use the word bank to complete the sentences below.

**higher**    **absorb**    **temperatures**

Lower \_\_\_\_\_ do NOT mean lower UV levels. You are exposed to UV even on cool days.

Dark-colored clothing generally has a \_\_\_\_\_ UPF (Ultraviolet Protection Factor) than light-colored clothing. That means darker colors absorb more UV rays.

Specially treated fabric can make lighter colors \_\_\_\_\_ more UV, making them comfortable and safe.