

Hot and Cold Colors Worksheet

Procedure

1. Record the temperature of your thermometer.
2. Cover your thermometer with a “pocket” made of construction paper.
3. Hold the thermometer/paper no closer than 6 inches from a lit light bulb.
Note: For each test, make sure you hold the thermometer/paper at the SAME DISTANCE from the light bulb and at the same ANGLE.
4. After one minute, take the paper pocket off the thermometer and record the temperature. (What should have happened?) Immediately put the pocket back on and hold it six inches from the bulb for another minute.
5. Repeat Step 4 until you have temperature readings for five minutes for that one color.
6. Put the thermometer in a cup of room temperature water to bring the temperature back down. Dry it off and record the new beginning temperature.
7. Repeat Step 4 until you, again have readings for five minutes for a new color. Again, cool off the thermometer.
8. Repeat the process for a total of four different-colored paper pockets.

Data Sheet

Paper Color	Beg Temp	Temp at 1 min	Temp at 2 min	Temp at 3 min	Temp at 4 min	Temp at 5 min

Data Analysis

- Make a bar graph of your data.
- Use the difference in the beginning temperature and the highest temperature reached by each color.
- Use temperature in degrees for the y-axis and color for the x-axis.
- Make sure everything is labeled.

Name: _____ Date: _____

Questions

1. What effect did the darker colors have on temperature?
2. What effect did the lighter colors have on temperature?
3. List the colors in order from hottest to coolest.
4. From what you learned, what color t-shirt would you wear on a hot, sunny day in order to stay cool?