

# Colors and Light

**Grade Levels:**

**K-3**

**Question:**

**Do some colors absorb more sunlight than others?**

**Possible Hypotheses:**

**All colors absorb the same amount of sunlight.**

**Some colors absorb more sunlight than others.**

**Materials:**

**Four tall clear glasses**

**Water**

**Food coloring**

**Immersion thermometer**

**Procedure:**

1. Fill the glasses with the same amount of cold water. Record the temperature of the water.
2. Add 20 drops of red food coloring to one glass, 20 drops of yellow to one glass, and 20 drops of blue to one glass.
3. Place all four glasses in a sunny place for 15 minutes.
4. Record the temperature of the water in all four glasses.

**Analysis and Conclusion:**

**Did the temperature of the water change? Which water got warmest? What did you learn about colors and light?**

