





**VOL. 21** 

# FEEL THE DIFFERENT EFFECTS OF THE SUN ON **BLACK** AND **WHITE** PAPER

## **Developed by Linda Roberts**

Grades 3-8

**OBJECTIVES** Students will... · Develop an understanding of voluntary vs. involuntary reactions.

**MATERIALS** 

• 2" x 2" Squares of White and Black Construction Paper (1 of each per student) [Cat. No. 9715510(AC) and Cat. No. 9715510(AE)]

Masking Tape (Cat. No. 9722434)

Sunlight

**ACTIVITY** 

 Have each student apply a small roll of masking tape to the back of the black and white paper squares supplied.

· Instruct students to stick the black square to one cheek on their face, and the white square on the other cheek.

• Take students out in the sunlight for 5 to 10 minutes.

**DISCUSSION** 

Once back in the classroom, have the students describe what they felt. The black paper should heat up faster than the white paper, because black absorbs sunlight and white reflects it.

Q: What are practical applications for this knowledge?

A: Wear light colored clothing in the summer, passive solar collectors are black to absorb sunlight; roof color of buildings affects the temperature, etc.



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SB47413

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SB15349



#### Sun Tracking Kit

Model demonstrates the true daily path of the sun. Repeating the same experiment, students will be able to compare the daily paths of the sun for different seasons of the year. 10 plastic hemispheres, a paper describing degrees upon which the hemisphere is placed, a marker, and instructions. A CHOKING HAZARD (1). Not for under 3 yrs. SB50535

CHOKING HAZARD (1) A WARNING: CHOKING HAZARD –
Small Parts. Not for children under 3 yrs.