

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

OBJECTIVES

Students will...

Developed by Linda Roberts

Grades 3-8

- Develop an understanding of voluntary vs. involuntary reactions.

MATERIALS

- 2" x 2" Squares of White and Black Construction Paper (1 of each per student) [Item Number [9715510AC](#) and Item Number [9715510AE](#)]
- Masking Tape (Item Number [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 coloured clothing in the summer, passive solar collectors are black to absorb sunlight; roof colour of buildings affects the temperature, etc.



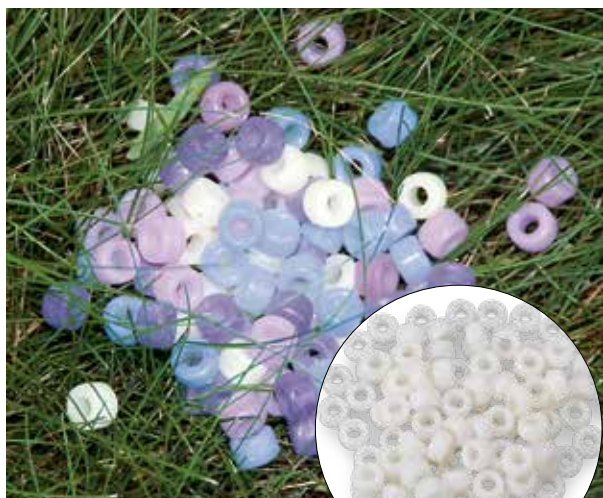
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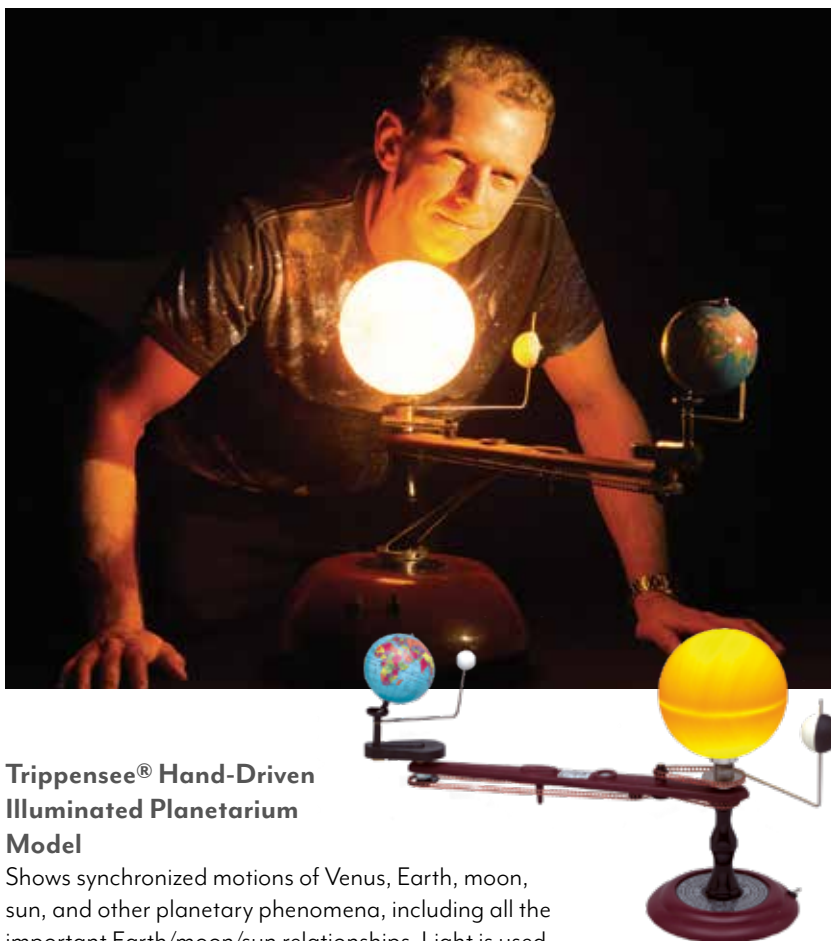
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Parental Guidance

Required. Activities Included: Balloon blow, Mystery pop balloon, Melting Ice, Build a thermometer, Sundial, Ice hands, Wax paper sun catcher.

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