

## Ultraviolet Detectives Record Sheet



Your name: \_\_\_\_\_ Date: \_\_\_\_\_

Others in your group: \_\_\_\_\_

Ultraviolet (UV)-sensitive beads are a good way to tell whether substances block the Sun's UV radiation. Please test as many things as possible, first predicting whether the substance will block UV and then actually testing each one. You can try different types of clothing, for example. Remember to keep the bead in the medicine bottle or other covered container that you got them in until you are ready to use them. If you go outside, make sure you hold the bead or beads you plan to use in such a way that they are completely covered by your hand or clothes.

**Use these symbols to fill out the chart: C = clear, SC= slightly colored, DC = deeply colored.**

Substance being tested	Your prediction for the bead	Your observation of what happened to the bead
Direct sunlight (no window in the way)		
Sunlight through a closed window		
Outside air in the shade		
Sunlight through clouds		
Brownish pill bottle		
Sunscreen lotion, SPF =		
Sunscreen lotion, SPF =		
Sunscreen lotion, SPF =		
Eyeglasses (clear)		
Sunglasses		

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Substance being tested	Your prediction for the bead	Your observation of what happened to the bead
Baseball cap		
White construction paper		
Black construction paper		
Tissue paper		
A cup filled with water		
Windshield glass from a car		

Fill in any other substances you decided to test in the empty rows.

### QUESTIONS

1. If a student is really sensitive to UV rays, what recommendations would you make to that student?
2. Can a student with light skin get a sunburn on a cloudy day? How do you know?
3. If you did the sunblock lotion and cream cheese experiment, explain what you observed.