



SOLAR EXPERIMENT.

# HARNESS THE SUN'S POWER TO HEAT WATER.

Just like some of our customers use solar panels to harness the sun's energy, you can use different things at home to channel the sun's energy to heat water.

**WE'D LOVE TO SEE HOW YOU GET ON.  
ASK AN ADULT TO HELP YOU SHARE YOUR  
PROGRESS WITH US ON SOCIAL MEDIA.**



# SOLAR EXPERIMENT

(DON'T FORGET TO CHECK WITH AN ADULT BEFORE STARTING THIS EXPERIMENT)

## WHAT YOU WILL NEED:



THREE IDENTICAL CUPS



TWO SHEETS OF WHITE PAPER  
& ONE SHEET OF BLACK PAPER



PLASTIC WRAP OR A PLASTIC  
BAG TO COVER ONE CUP



ONE THERMOMETER



A PEN TO RECORD  
YOUR RESULTS

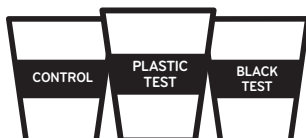
## DIRECTIONS:

1

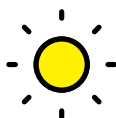
PRINT OUT OR COPY DOWN THE BELOW TABLE TO TRACK YOUR RESULTS.

CUP NAME	TIME TEMPERATURE TAKEN	PRE-TEST TEMPERATURE	TIME TEMPERATURE TAKEN	POST-TEST TEMPERATURE	DIFFERENCE IN TEMPERATURE
CONTROL CUP					
PLASTIC TEST CUP					
BLACK TEST CUP					

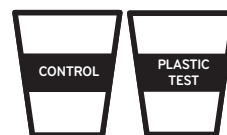
2



3



4



### Label each cup:

- Control cup
- Plastic test cup
- Black test cup

Find a sunny  
location in your  
home to place  
the cups.

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5



Place the Black Cup on the black piece of paper.

6



Fill each cup about halfway with water, making sure each cup has the same amount of water in it.

7



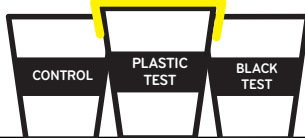
Using your thermometer, take the temperature of each cup of water, then write down the time you took the temperature and the temperature of the water in your table.

8



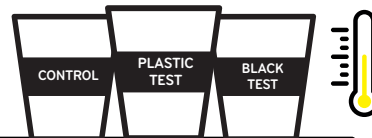
Cover the opening of the plastic test cup with your plastic wrap or plastic bag.

9



Leave the cups sitting in their sunny location for one hour.

10



After one hour, retake the temperature of each cup of water.

11



Using the table provided record the results.

Work out the difference in temperature between each cup of water.

?

## TELL US YOUR RESULTS!

Which cup was the warmest after the experiment?

What does that tell you about the sun's energy and how you can harness it?