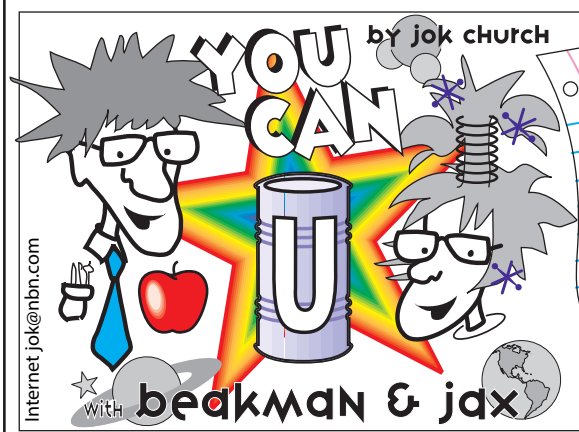


EMBARGOED
Until Release Date



by jok church

Dear Beakman,
Are black or white colors? I'm confused.

Rita Salpietro
Millville,
New Jersey

Beakman or Jax
P.O. Box 30177
Kansas City, MO 64112
Questions, name & address

experiment #1

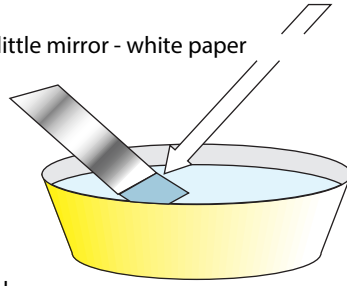
WHAT YOU NEED: Sunshine - small tub of water - little mirror - white paper

WHAT TO DO:

Place the mirror at the tub's edge like in the drawing. The water must be very calm. Let the sunshine hit the part of the mirror that's under water. Hold up a piece of paper to catch the light bouncing off the mirror.

SO WHAT:

You'll get a rainbow on the paper. The water acted like a prism and took the white light apart into all its colors.



Dear Rita,
We don't see things. We see the light that bounces off things into our eyes. It's the same with colors. All colors together make white and white sunlight. We only see the colors that something bounces back at us. The other colors are absorbed. Black is when all colors of light are absorbed. White is when all colors of light are bounced back.

Beakman
Beakman Place

- 1 - All colors hit a leaf.
- 2 - A green leaf absorbs every color except green.



- 3 - Green is reflected. That is what we see.

RED
All colors except red are absorbed.



BLUE
All colors except blue are absorbed.



BLACK
All colors are absorbed. No colors are bounced back.



WHITE
All colors are bounced back. None is absorbed.



P.S. from Jax: Deep Thought for the Day: Without light there are no colors at all. In the dark nothing has a color because no light can be bounced back. Wow.

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