



## Curiosity Guide #203

### Refraction of Light

Accompanies Curious Crew, Season 2, Episode 3 (#203)

#### Water Droplet Magnifier

Investigation #6

##### Description

Amaze yourself with the power of a drop of water!

##### Materials

- Wax paper
- Scissors
- Magazine clippings
- Pipette or eye dropper
- Container of water
- Magnifying glass

##### Procedure

- 1) Cut a 4 by 4 inch piece of wax paper.
- 2) Lay the wax paper square on top of a page from a magazine so that it is over small, typed print.
- 3) Fill the pipette with water.
- 4) Make a water droplet in the center of the wax paper.
- 5) Look through the droplet at the letters on the page.
- 6) What do you notice?
- 7) Experiment with different sizes of water droplets.
- 8) Look through a convex lens magnifying glass at the same print.
- 9) What do you notice? How do the water droplets and the magnifying glass relate?

## My Results

### Explanation

Wax paper repels water, so the droplets stay together well and form bubbles of different diameters. The curved top to the bubble acts like a convex lens and magnifies the letters on the page. The smaller the droplet, the more curved the top of the lens, and the greater the light is bent and magnified.

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