



Explain how water can bend light

Glass of Water Lens

Method

1. Hold up an image of a left-facing arrow.
2. Slide a cylindrical glass of water in front the image.
3. Look through the glass and describe what you see.
4. Move the glass towards and away from the image and describe what you see.



What happened to the arrow when the glass was slid in front of it?

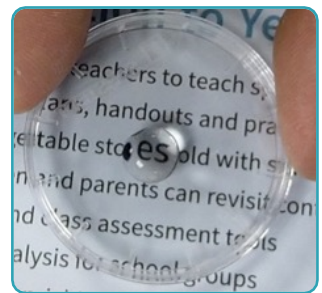
What happened to the arrow when the glass was moved towards it?

What happened to the arrow when the glass was moved away from it?

Droplet Magnifier

Method

1. Place a waterproof transparent material on top of a page of newspaper. Near the middle of the film, place a drop of water using a pipette or the tip of your finger.
2. Next, carefully lift and hold the transparent material about 2cm above the newspaper.



What happens as the water lens is lifted?

Stretch:

List 3 things that are different about the two lenses.

Challenge:

List 3 things the two lenses have in common.