



GET LEARNING



10 MINUTES



PREPARATION
NEEDED

WATER & LIGHT



▶▶ GETTING INTO THE ACTIVITY

Learn how you can bend light and change how pictures look, using just a bottle/glass of water. Link with British Science Week (5th - 14th March).

Download the Water & Light PowerPoint and share this via screenshare. Each child will need a clear and smooth bottle filled with water. Alternatively, a glass of water can be used, but care should be taken around technology to ensure no spillages happen.

Show the PowerPoint and for each image ask the children to look at the picture through the bottle / glass of water. What do they notice? Has the image changed? The picture (arrows, car, superhero etc) should now be facing the other way. How cool is that! Spend some time trying this out on the other pictures and words? Can the group translate the hidden message on the last slide?

The Science: Light travels at different speeds through different objects. Light travels fastest through air, a little slower through water, and even slower through glass. This means that the light bends when it travels through the bottle/cup into the water, and then it bends again when it travels out of the bottle/cup and into the air. As a result, the light paths cross and the image appears to be flipped. This is called refraction.

✓✓ WHAT YOU'LL NEED

- Water & Light PowerPoint
- Bottle / Glass of Water

! KEEPING EVERYONE SAFE

When using screenshare, make sure to check the items you are sharing are appropriate. Please encourage children to use bottles of water where possible - those using cups of water should take extreme care around technology.