In dark conditions, shine a torch through the cuts into the box, making light look larger. What do you notice?

**What you need:**
- scissors
- torch
- water
- glass jar
- paper
- white sheet of paper
- box
- cardboard

**What to do:**
1. Cut a circle of paper the size of your thumb, and put it at the end of the cardboard box.
2. Cover the box with a piece of white paper and place it in a darkened room.
3. Shine a torch through the cut circle into the box.

**Why does it work?**

The light passes through water and glass, which are transparent, meaning light travels in a straight line. Water and glass are way, substances like air, unless something blocks its path, light goes in a straight line.

**Project:** A Lens Jar

Hit a new substance. This direction when it hits a lens is bend. The light still travels in a straight line. Some substances like air, unless something blocks its path, light goes in a straight line.
SEEN DOUBLE

View through a coin in water.

Put a coin in water and watch the surface of the water and then bounce the light beam up to your eyes. Check out the number to see if you can catch some light from the surface of the water and side of the coin through the water and side of the coin through the water.

How can you see two coins?

Put a coin in water and your view and put a coin in water and watch the surface of the water and then bounce the light beam up to your eyes. Check out the number to see if you can catch some light from the surface of the water and side of the coin through the water and side of the coin through the water.

The diagram shows how light passes through a lens and a glass to converge in a certain way. The version shown here is a righting or reflection of a curved transparent object.

The bending of light as it passes from one transparent substance to another, like air to water, or water to glass, is called REFRACTION.