Science

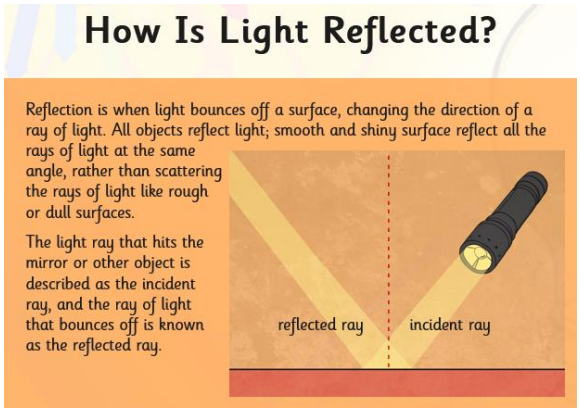
How is light reflected?

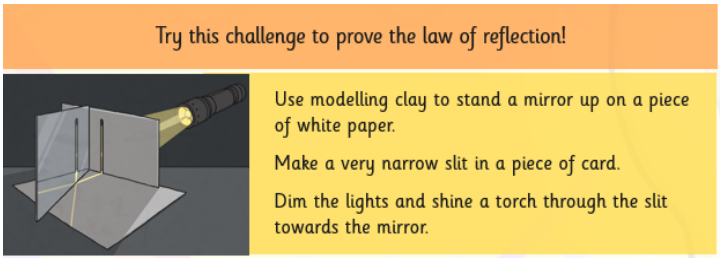
Previously we learnt that light travels into our eyes and enables us to see objects which is why you cannot see things in the dark. We also know that light travels in straight lines.

Websites to look at

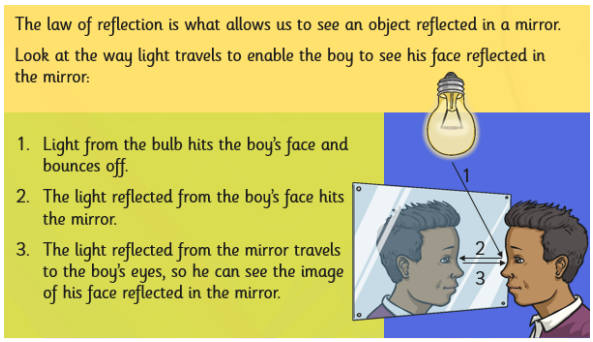
https://www.bbc.co.uk/bitesize/topics/zbssgk7/articles/zqdxb82

https://www.youtube.com/watch?v=vt-SG7Pn8UU





Seeing reflections



Your Task

Follow the instructions to make you own periscope and post a photo of your finished one.

A periscope is a device for seeing over or around something.

Periscopes were first used by sailors in around 1860, who used them in submarines to see above the surface of the water. They were also used by soldiers in the First World War, to see over the top of their trenches. They are still used today by tanks and some submarines.

Periscope Template.pdf

Follow these instructions to make your own working periscope.

You will need:

A cereal box 

A pair of scissors 

2 safety mirrors 

Sticky tape 

Step 1

Carefully open up your cereal box and lay it out flat.

Step 2

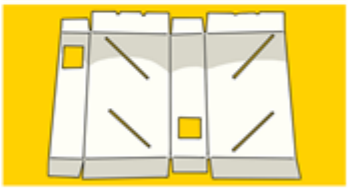
Stick the 'mirror' templates in the centre of the wide panels of the cereal box.

Step 3

Stick the 'window' templates in the centre of the narrow panels of the cereal box.

Step 4

Carefully cut along the lines for the mirrors, and cut out the windows.

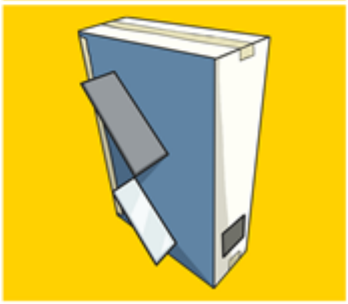


Step 5

Use sticky tape to stick the cereal box back together.

Step 6

Push the mirrors through the mirror lines you cut, and out the other side of the box so they are held firmly in place.



You should now be able to use your periscope to look around or over things!
Look through one viewing window to see an image from the other window.