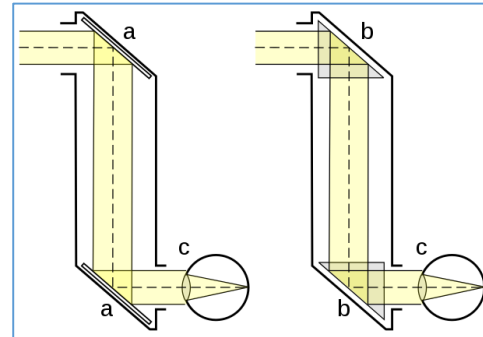


Vocabulary

Light	Light is a source of illumination, it allows us to see.
Speed of light	The speed of light is believed to be the fastest speed at which anything in the universe can travel, approximately 650 million miles per hour.
Mirror	A surface which reflects a clear image.
Shad	A dark patch where light has been blocked
Reflection	The return of light from a surface.
Prism	A wedge shaped object which can split white light into a rainbow spectrum of colours.
Visible Spectrum	Light that is visible to the human eye. It is made up of a colour spectrum.
Transparent	Describes objects that let light travel through them easily, meaning you can see through the object.
Translucent	Describes objects that let some light through but scatters the light so we can't see through them properly.
Refraction	This is when light bends as it passes from one medium to another, e.g. light bends when it moves from air into water.

Light



A Periscope - a device that uses reflection of light to allow the user to see something that is out of their line of sight.

At A, the mirrors are tilted 45° and at B the light reflects from the mirrors travelling down the Periscope. At C, the image can be seen by the user.

Key Knowledge

- Light illuminates allowing us to see.
- Some light sources are natural and some are artificial.
- Light travels in straight lines.
- The cornea is a transparent covering on the outside of your eye.
- The iris is the coloured part of the eye which helps the pupil to 'open and close'.
- Inside the retina, the light rays become electrical signals which travel along the optic nerve to the brain.
- Shadows are always the same shape as the object that made them.
- The size of shadows can change, but the outline shape is always the same as the original object.
- When light travels through a prism, the glass slows it down, and changes its course. Different colours are slowed down different amounts.
- A periscope helps you to see something that is out of sight.
- A periscope reflects and image using light and mirrors.