



# LIGHT



## Lesson 1 Explore how light travels

How does light travel?



Symbol, eye, light, light source, scientific diagram

## Lesson 2. reflection

How does a periscope work?



Surface, direction, reflected, bounce, mirror.

## Lesson 3 shadow investigation

Do all objects make the same shadow?



Shadow, block, opaque, translucent, transparent

## How does light travel?

**How We See**

Light travels in **straight lines**. The light **rays** from a light source **reflect** off the object we are looking at. The light travels in a **straight line** and enters the eye through our **pupil**.

**Shadows**

**Opaque** objects block the light rays so they can only travel around the edges of the object in straight lines. That is why a shadow is the same shape as the object.

The **closer** an object is to the light source, the **bigger** the shadow.

The **further away** the object is from the shadow, the **smaller** the shadow.

**Bending Light**

**Reflection**  
Light reflects off shiny, bright or light surfaces. That is why you can see your reflection when you look in a mirror.

**Refraction**  
Water and bent shiny surfaces cause light rays to be reflected at different angles, meaning the reflection of the image is distorted.

**Colours**

**Absorption and reflection of light**

White light is made up of the colours of the rainbow. When light is refracted through a transparent object, a rainbow is formed.

A red object reflects red and absorbs others colors of white light

A white object reflects all colors of white light equally

An object is seen as black if it absorbs all colors of white light

Careers connected this topic  
Light technician, optician.

Year 6  
Spring 1

## Lesson 4 shadow investigation



## Lesson 5 explore light phenomena

How do we see?



Phenomena, disperse, refraction, optical, spectrum.

## Lesson 6

Can you explain all you have learned from this topic?

Vocab-all words from previous lessons.

