

# Light—Science

## What you've learnt already

Children can name a variety of sources of light, including electric lights, flames and the Sun, explaining that we see things because light travels from them to our eyes.

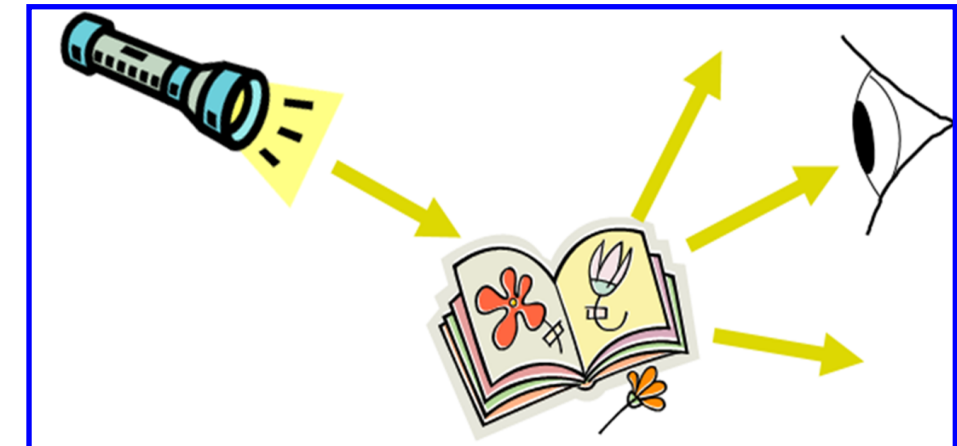
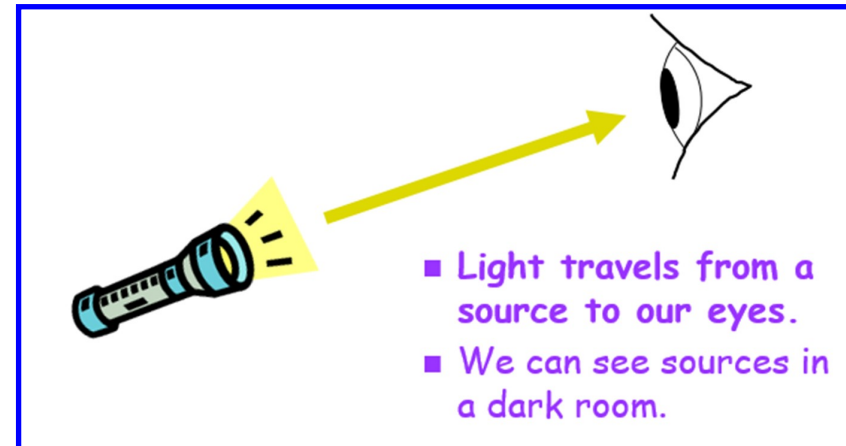
## Choices

- Would you choose to sit in the shade or use sun cream to protect yourself from the sun?
- What object would you choose to make the biggest shadow?
- If you could choose a light source to be used for the classroom, what would it be?

## Key Vocabulary

reflection	It occurs when a ray of light hits a surface and bounces off.
light source	The main light source for Earth is the Sun. Some other luminous objects give out light, for example, torches, candles and lamps.
shadows	A shadow is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow.
darkness	Darkness is the absence of light.
opaque	Opaque objects do not allow light to pass through them. In most cases creating a shadow.
translucent	Translucent objects allow some light to pass through them.
transparent	Transparent objects allow light to pass through them.

## Diagrams



## Lesson Sequence

L1	WALT Understand what is a light source and what is not.
L2	WALT Understand how to stay safe in the sun.
L3	WALT recognise the properties of materials that are opaque, translucent and
L4	WALT: Identify if objects with different surfaces (shiny/dull)
L5	WALT: recognise objects that reflect light.
L6	WALT Understand how a shadow can change depending on the position of the light source.

## Key Knowledge

- What dark is (in relation to absence of light).
- Light sources include: the sun, fire, torches, lamps, glow sticks, light bulb etc.
- Know that we need light so we can see things.
- Know that light can be reflected.
- Know how a shadow is formed.
- Understand why shadows change shape.
- Know the dangers of looking directly at the Sun.
- Know how to protect oneself from direct sunlight.
- Understand the difference between opaque, translucent and transparent.