

Light



Curriculum Links:

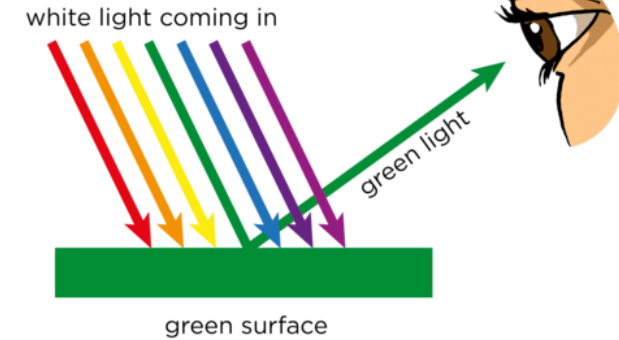
- Recognise that light appears to travel in straight lines
- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes
- Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Key Facts:

- Light is a type of energy which makes it possible for us to see. Light comes from different sources ; our main source is the sun. Other sources include fire, stars and man-made light such as bulbs, torches etc.
- We see in colour due to light; our eyes see different wave lengths of light as different colours.
- Light travels in a straight line
- Reflection is when light bounces off a surface; this changes the direction in which the light travels
- Because light travels in straight lines, when an opaque object blocks it, a shadow is formed.
- When light hits an object, it is reflected and enters our eye. This how we see objects.

Possible experiences: We should already know:

- Investigate when light is reflected from different surfaces
- Experiment with shadows
- Create a periscope
- Experiment with light in water
- Create kaleidoscope
- Certain things produce light, usually by burning or electricity
- Shadows are caused when light is blocked; the further away the light source, the smaller the shadow
- Light travels in straight lines



Key Vocabulary

Dark	The absence of light
Dim	Light which is not bright
Emits	To emit light means to produce it
Light	A brightness which lets you see things
Opaque	An object or substance you cannot see through
Reflect	Sent back from the surface and not pass through it
Shadow	A dark shape on a surface which is made when something stands between light and a surface
Source	Where something comes from
Translucent	An object or surface which lets some light though
Transparent	An object or substance which you can see through