

Subject: Year 3
Concept: Light

Previously, I have learnt... → In Year 3, I am learning... → In the future, I will learn... → My future...

That light is provided by different sources

To recognise that they need light in order to see things and that dark is the absence of light

To 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.

That light from the sun can be dangerous when we look at it.

That light is reflected from surfaces
To recognise that light from the sun can be dangerous and that there are ways to protect my eyes

To 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

To recognise shadows around me.

To recognise that shadows are formed when the light from a light source is blocked by a solid object
To find patterns in the way that the size of shadows change

To use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

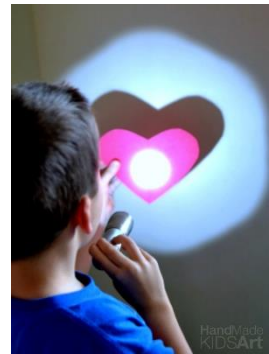
- Scientist
- Doctor
- Dentist
- Archaeologist
- Engineer
- Chemist
- Teacher
- Biochemist
- Astronaut
- Anthropologist
- Environmentalist
- Naturalist
- Wildlife documentary presenter



sun
light
shadows
sources
dark



reflection
surface
natural
man-made
absorb
plane mirror
concave mirror
convex mirror



light ray
transmit
opaque
transparent
translucent
emit
dispersion
prism

Subject: Year 6
Concept: Light

Previously, I have learnt...

In Year 6, I am learning...

In the future, I will learn...

My future...

To recognise that they need light in order to see things and that dark is the absence of light

That light is reflected from surfaces

To recognise that light from the sun can be dangerous and that there are ways to protect my eyes

To recognise that shadows are formed when the light from a light source is blocked by a solid object

To find patterns in the way that the size of shadows change

To 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.

To 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

To use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

The similarities and differences between light waves and waves in matter.

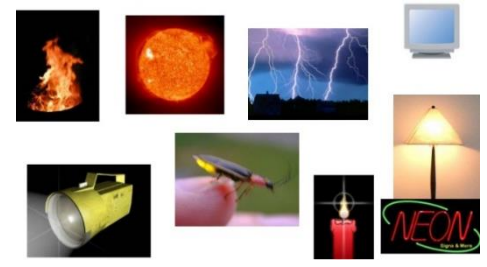
That light waves travel through a vacuum at the speed of light.

To understand the transmission of light through materials: absorption, diffuse scattering and specular reflection at a surface

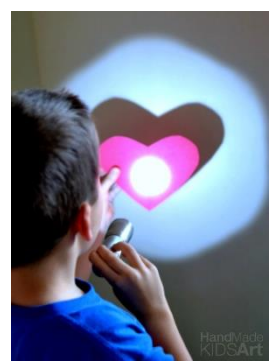
To understand the transmission of light through materials: absorption, diffuse scattering and specular reflection at a surface

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light waves
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