



<b>Topic: Light</b>	<b>Year: 3</b>	<b>Strand: Physics</b>
---------------------	----------------	------------------------

**What should I already know?**

In Key stage 1, you learned about the basic parts of the human body and explored the different senses that humans have.



Key Vocabulary	
man-made	Things that are created or caused by people rather than occurring naturally.
transparent	An object or substance that you can see through
mirror	A flat piece of glass that reflects light so that when you look at it, you can see yourself reflected in it.
dark	The absence of light.
absence	Something that is not there or does not exist.
light source	Places/things that create brightness
reflection	The process by which light and heat are sent back from a surface and do not pass through it.
opaque	An object or substance that you cannot see through.
translucent	An object or substance that allows some light to pass through it.
shadow	A dark shape on a surface that is made when something stands between a light and the surface.
shiny	Things that are bright and reflect light.

**What will I know by the end of the unit?**

Why can you not see in the dark?	Because there is no light.
Can you get coloured shadows?	No
How do you make a shadow?	Put an opaque object in front of a light source.
Name a natural light source.	sun, fire, lightning
Name a man-made light source.	torch, lamp
Why does the moon look bright?	Because it reflects light from the sun.
What happens when light hits a reflective surface?	It is reflected back.
Does light travel through opaque objects?	No
What happens when light hits a translucent object?	Some of the light goes through it.
Why should you not look at the sun?	It is dangerous for your eyes.

**Scientific Enquiry**

- Use different ideas and suggest how to find something out.
- Plan a fair test and explain why it was fair.
- Measure using different equipment and units of measure.

**Objectives**

Recognise that you need light to see and that dark is the absence of light.

Notice that light is reflected from surfaces.

Recognise that light from the sun can be dangerous.

Recognise that shadows are formed when the light from a light source is blocked by a solid object.

Find patterns in the way that the size of shadows change.

**Useful Websites**

<https://www.bbc.co.uk/bitesize/topics/zbssgk7>