

Knowledge Overview

Year 6: LIGHT



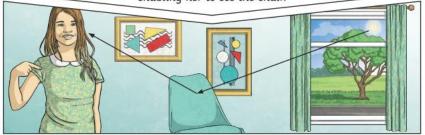
Vocabulary:

light	A form of energy that
	travels in a wave from a
	source.
reflection	Reflection is when light
	bounces off a surface,
	changing the direction of a
	ray of light.
incident ray	A ray of light that hits a
	surface.
reflected ray	A ray of light that has
	bounced back after hitting a
	surface.
the law of	The angle of the incident ray
reflection	is equal to the angle of the
	reflected ray.
refraction	When light bends as it
	passes from one medium to
	another.
visible	Light that is visible to the
spectrum	human eye. It is made up of
- -	the colour spectrum.
prism	A prism is a solid 3D shape
-	with flat sides. The two ends
	are an equal shape and size.
	A transparent prism
	separates out visible light
	into all the colours of the
	spectrum.
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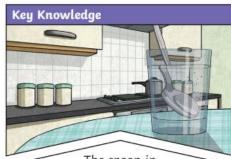
Key Knowledge

We need light to be able to see things. Light waves travel out from sources of light in straight lines. These lines are often called rays or beams of light.

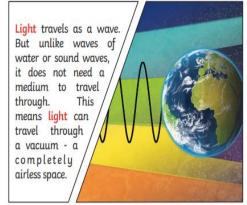
Light from the sun travels in a straight line and hits the chair. The light ray is then reflected off the chair and travels in a straight line to the girl's eye, enabling her to see the chair.



The law of angle angle of reflection reflection is the reflection angle between the states that normal line and the angle reflected ray the reflected ray incidence light. is equal to the normal line angle of reflection. The angle Whenever light is incidence is the reflected from incident ray between angle a surface, it the normal line obeus this and the incident angle of incidence law. ray of light.



The spoon in
this water looks as if it is bent. This
is because light bends when it moves
from air to water. When light bends
in this way, it is called refraction.





Isaac Newton (1643 – 1727) shone a light through a transparent prism, separating light out into the colours of the rainbow (red, orange, yellow, green, blue, indigo and violet) known as the colour spectrum. The colours merge together and create light. Isaac Newton also discovered the law of gravity and the 3 laws of motion.