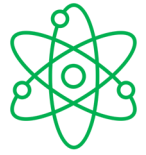


Did you know?

. The reason you can see lightning before you can hear thunder, is because light travels faster than sound. So the sound of thunder is actually

Light

Year 6 Autumn Term



Key Vocabulary

light		A form of energy that travels in a wave from a source.
light source		An object that makes its own light.
reflection		Reflection is when light bounces off a surface, changing the direction of a ray of light.
filter		Pass through a device to remove unwanted material (liquid, gas, light or sound)
periscope		An apparatus consisting of a tube of attached to a set of mirrors or prisms through which an observer can see things that are otherwise out of sight
rainbow		An arch of colours visible in the sky, caused by the refraction and dispersion of the sun's light by rain or other water droplets in the atmosphere
refraction		The bending of light as it passes from one substance to another with the bending caused by the difference in density between two substances
spectrum		A band of colours, as seen in rainbows, produced by separation of the components of light by their different degrees of refraction
shadow		The dark shape made when something blocks light from a light source like the sun

Why do we need light?



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.

Refraction



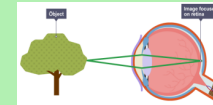
The spoon in this water looks as if it is bent. This is because light bends when it moves from air to water. When light bends in this way, it is called refraction.

Did you know?

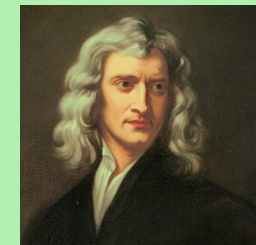
If you travelled at the speed of light, you could travel around the Earth 7.5 times every second!

How do we see?

We see objects because they give out light or they reflect light from a light source (Natural / Artificial) into your eyes. Inside the eye is a lens which focuses the light onto a surface at the back of the eyeball. This surface is called the retina and is made up of special cells which detect light and send messages to our brain. The message passed from the retina to your brain is the image you see.



Significant People



Although Newton is best known for his work on gravity, did you know he identified that light is made up of a spectrum of colours. He did this by refraction of white light through a prism and saw that different colours of light passed through.