



Science Knowledge Organiser – Year 6

Light



Vocabulary	Definition	Picture
dark	The absence of light.	
incident ray	A ray of light that hits a surface.	
light source	An object that makes its own light.	
opaque	An object which does not let any light pass through it.	
reflection	When light bounces off a surface, and changes direction.	

Vocabulary	Definition	Picture
refraction	When light bends as it moves through a medium.	
shadow	An area of darkness where light has been blocked.	
spectrum	A band of colours, such as a rainbow, due to refraction.	
translucent	An object which lets some light pass through it.	
transparent	An object which lets light pass through – you can see through it.	



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Key Knowledge Facts

We need light so that we are able to see. Dark is the absence of light.

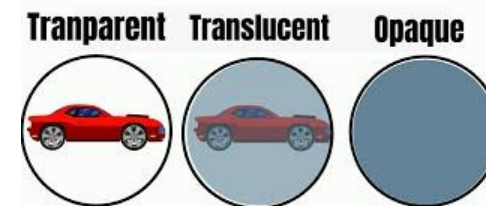
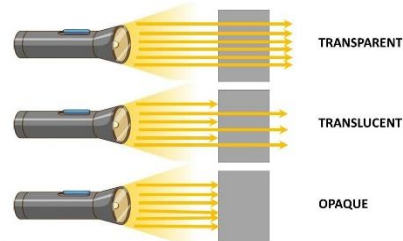
Light travels in straight lines. It passes through the cornea and into the pupil in our eye, to allow us to see.

Light is reflected when it hits an object and changes the direction it travels. It bounces off at the same angle.

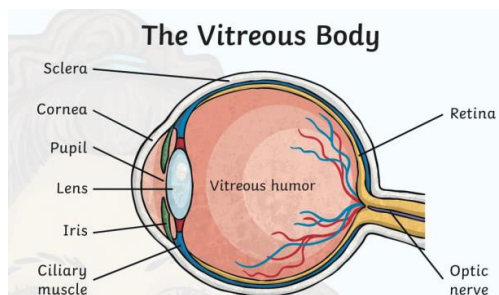
Light is refracted when it passes through a different medium (e.g. air, water). The light waves look like they have bent. They travel through at a different angle.

Light is made up of many different colours (white light), known as the spectrum. When light hits an object, some of the colours are absorbed by the object and some are reflected. This allows us to see colours.

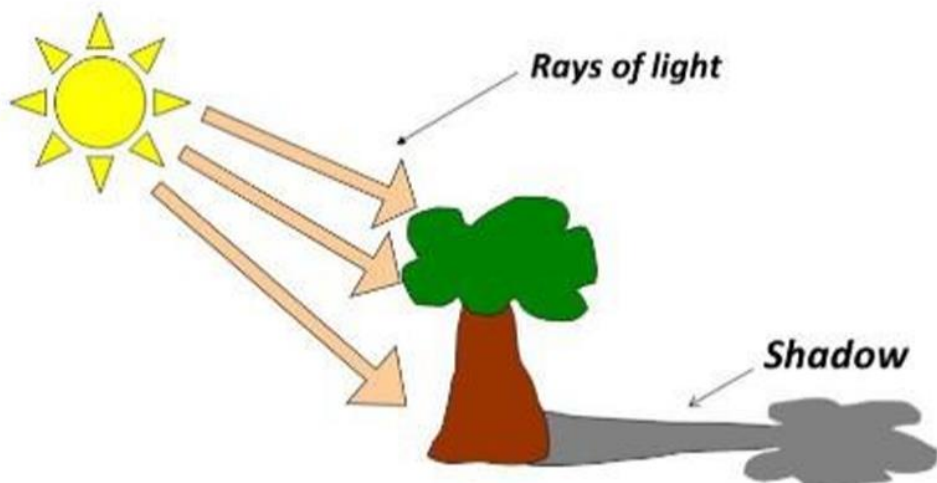
Transparent, Translucent and Opaque



The Eye



Shadows



Colour Spectrum

