

Knowledge Organiser

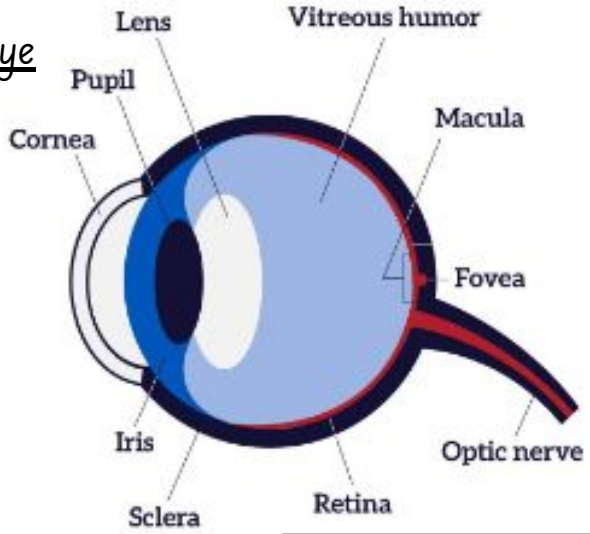
Science: Light

Isaac Newton



Useful websites:
[BBC Bitesize](#)
[The School Run](#)

The Eye



- I already know:**
- that light is reflected from surfaces
 - that light from the sun can be dangerous and that there are ways to protect their eyes
 - that shadows are formed when the light from a light source is blocked by a solid object

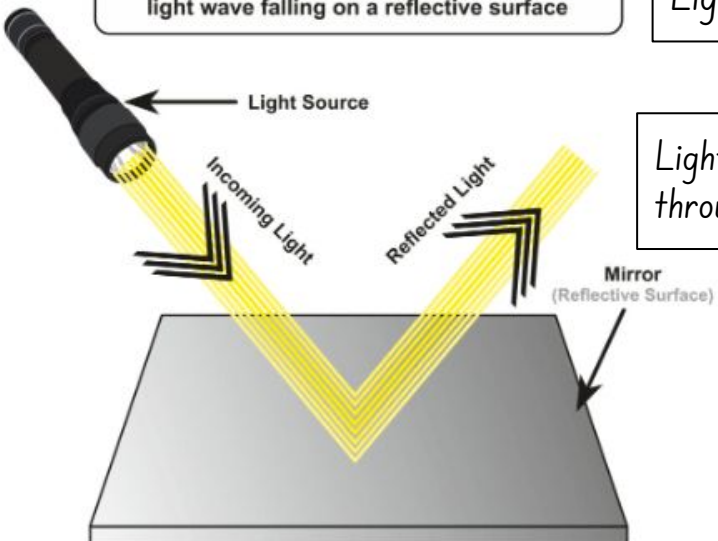
Key Vocabulary	
Light	A form of energy that travels in a wave from a source.
Light source	An object that makes its own light.
Reflection	Reflection is when light bounces off a surface, changing the direction of a ray of light.
Incident ray	A ray of light that hits a surface.
Reflected ray	A ray of light that has bounced back after hitting a surface.
The law of reflection	The law states that the angle of the incident ray is equal to the angle of the reflected ray.
Refraction	This is when light bends as it passes from one medium to another. E.g. Light bends when it moves from air into water.
Transparent	Describes objects that let light travel through them easily, meaning you can see through the object.
Translucent	Describes objects that things let some light through, but scatters the light so we can't see through them properly
Opaque	Describes objects that do not let any light pass through them.

Light Reflection

Light reflection is a change in the direction of light wave falling on a reflective surface

Light travels in straight lines.

Some light sources are natural and some are artificial.



Light changes speed as it passes through different materials

White light is made from the colours of the rainbow.

WAVE LENGTH IN NANOMETER

