



Light

KNOWLEDGE ORGANISER

ESSENTIAL LIGHT VOCABULARY

Light	A form of energy that travels from its source in a wave.
Light source	An object that creates light.
Reflection	When light from an object is reflected by a surface, it changes direction. It bounces off the surface at the same angle as it hits it.
Refract	To make a ray of light change direction when it hits at an angle.
Periscope	A device that was created to make looking over, around or through objects possible.
Opaque	Objects that do not allow any light to travel through them.
Transparent	Objects that allow light to easily travel through.
Translucent	Objects that allow some light to travel through, but it is scattered.
Object	A physical item which is illuminated by light.
Incidence	The point at which the light hits the surface.

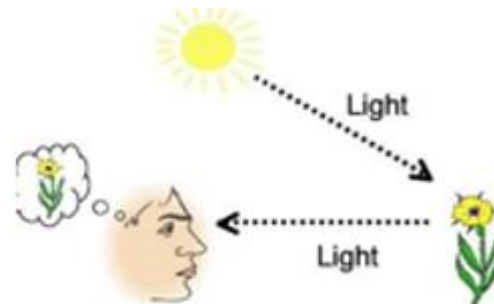
How does light travel?

Did you know?

- Light travels faster than any other form of energy including sound!
 - Light travels in waves.
- BUT DON'T BE FOOLED**
- Light travels in straight lines.
- Light cannot bend corners.

How do we see?

Light travels from the light source to the object where it is reflected into our eyes so we can see.



Making links to previous learning

Shadow	Shadows are formed when the light is blocked. The size of a shadow can change.
Reflected	Light can be reflected from surfaces.
Sunlight	Sunlight can be dangerous; we must protect our eyes.
Light	We need light in order to see things. Darkness is the absence of light.

Refraction

Objects in water (like a pencil in a glass of water) can appear as if they are bent.

This is because when light moves from air to water, it bends. The light beam reflected from the underwater pencil part comes out of the water in a different direction.

Shadow

Shadows are evidence of light travelling in straight lines. An opaque object blocks light so that it can't reach the surface where we see the shadow. Light fills up all of the space before it hits the object, but the area between the object and the surface is blocked, forming a shadow.

