



Y3 Science – Light, Reflection and Shadows

How we see things



We see things when light from a light source enters our eyes through the pupil.



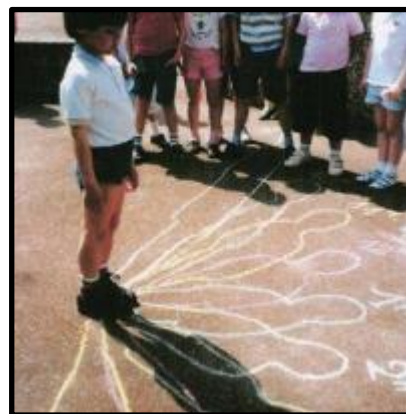
The light travels from the light source, reflects off the object and into the eye.

The Sun

The Sun is a source of light. If too much light comes through the pupil it can damage the eye.

It is very important that you never look directly at the sun as the light can damage your eyes really quickly, even when wearing sunglasses.

Bright lights indoors can also damage your eyes so you shouldn't look at them, or shine lights into anyone's eyes.

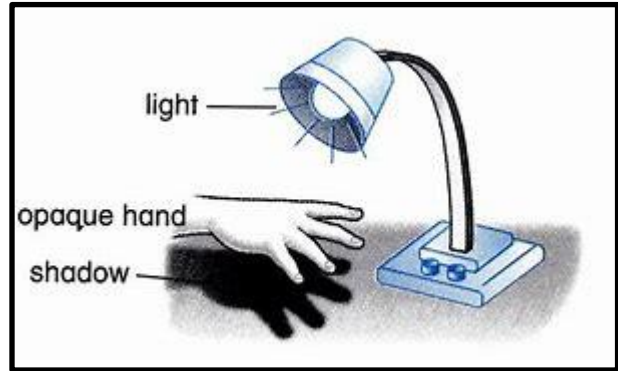



| Vocabulary | |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Opaque | Opaque materials do not let any light through. They block light. |
| Light Source | Where light comes from |
| Shadow | A dark area formed when light from a light source is blocked by an opaque object |
| Darkness | An absence of light |
| Transparent | Transparent materials let light through them in straight line, so that you can see clearly through them. |
| Translucent | Translucent materials let some light through but they scatter the light in all directions so you cannot see clearly through them |

Shadows


Shadows are made when there is an object blocking the light from hitting the surface. This means that the shadow will always be on the opposite side of an object to the sun or light.

Shadows made by the sun change as the earth moves.







Sun



Stars



Electric Lights



Flames

Sources of Light

The Moon, mirrors and shiny objects are **NOT** light sources. They reflect light.