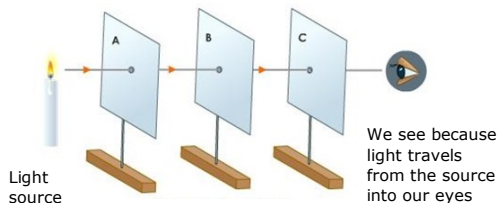


Knowledge Organiser Science Year 6

Light and seeing things

The nature of light

Light travels in straight lines



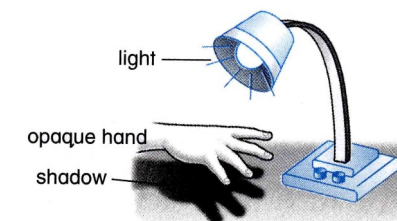
Light travels very fast - at 300 000 km per second. At this rate light can travel around the Earth 8 times in 1 second



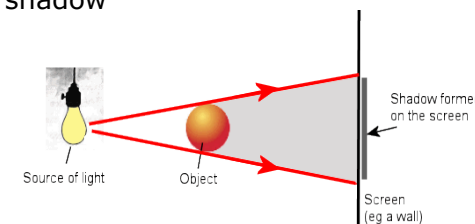
Key Vocabulary

absorb	Take in or soak up
energy	A supply of power. The ability to do work
light source	Where light comes from, eg a candle, the Sun
mirror	A shiny surface that reflects light in a regular way
opaque	Not clear. Blocks light so that none gets through
reflect	To throw back or bounce light from a surface
shadow	a dark shape or outline of something that is made when light is blocked
transparent	clear, see-through, lets light pass through
translucent	Almost see through, lets some light through

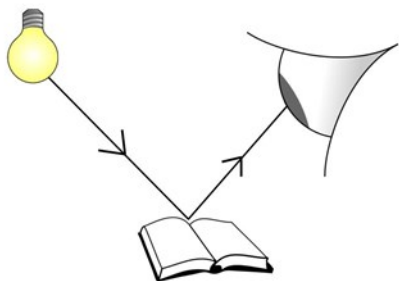
How shadows are made



An opaque object blocks the light from getting through. A dark shape or outline is formed. This is a shadow



Seeing things



For objects that are not a light source, light must be reflected from the object into our eye for us to see the object

Adventures with Light



When light travels through denser materials than air, it slows down and bends. This is called refraction



White light is really made up of the colours of the rainbow. This can be shown by shining light through a glass prism