




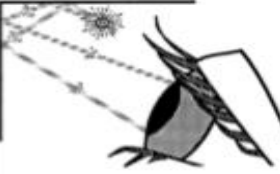
Light - Y6

To be able to recognise that light travels in straight lines.

To be able to use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.

To be able to explain that we see things because light travels from a light source to our eyes or from light sources to objects and then to our eyes.

To be able to use the idea that light appears to travel in straight lines to explain why shadows have the same shape as their objects.

Key Questions		
What do we already know about light and shadows?	If an opaque object gets in the way of the light, a shadow is formed as the light rays cannot get through. The shadow will be the same shape as the object.	
What is a light source?	A light source is something that provides light - it might be a natural (e.g. the sun) or artificial source (e.g. a torch). It makes its own light.	
What do we know about light?	It travels in straight lines ; it can travel through transparent or translucent materials.	
How do we see things?	We see objects when light from them goes into our eyes. The light may come directly from light sources but for other objects some light must be reflected from the object into our eyes for the object to be seen.	

Key Vocabulary	
light	The natural agent that stimulates sight and makes things visible It travels in straight lines
transparent	A material that allows light to pass through so that things can be clearly seen
translucent	Allowing light, but not detailed shapes, to pass through
opaque	A material that does not allow light to pass through so that things cannot be seen
filter	Pass through a device to remove unwanted light (or liquid, gas or sound)
shadow	A dark area or shape produced by an opaque object blocking rays of light
reflection	The throwing back by a body or surface of light (heat or sound) without absorbing it
shiny	A smooth surface reflecting light because it is very clean or polished
matt	A surface that is dull or flat without a shine

Light travels directly from the light source (candle flame) to the eye.



Here, the light goes from the light source, reflects off the object and into the eyes, so that you can see the object.