

Croxby Primary Academy

Year 6: Light Knowledge Organiser

Key People/Scientists



Thomas Edison (1847 - 1931)

An American inventor who invented the light bulb in 1879. He has been described as America's greatest inventor.



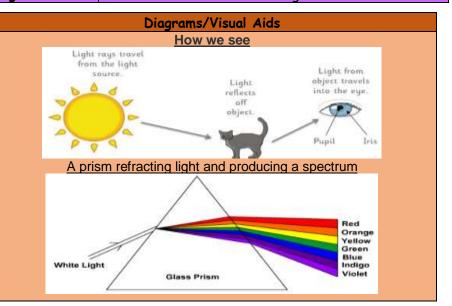
Dr Patricia Bath (1942 - 2019)An American inventor who invented the Laserphaco Probe for the treatment of cataracts (an illness of the eye common in the elderly).

Key facts/Misconceptions

Misconception: Light is not necessary for vision; it is possible to see in the dark.

Fact: Light is necessary for vision. It is impossible to see in total darkness. Misconception: Only smooth, shiny objects like mirrors reflect light; dull and rough objects do not reflect light. Fact: Dull objects do reflect light, otherwise we would not be able to see them.

Key Questions	
What is a	A light source is something that provides light. They
light source?	can be natural (like the sun or fire) or artificial (man-
	made, like torches or phone screens).
In what	Light always travels in a straight line until it hits
direction does	something else. It is then either reflected or
light travel?	absorbed. If an object blocks light, a shadow is
	formed.
How do we	Light rays travel from a light source, reflects off an
see?	object and light from the object travels into the eye.
Is the moon a	The moon does not emit light so it is not a light
light source?	source. It reflects the sun's light to the earth.



Key Vocabulary

filter	A transparent material that absorbs some colours but allows others to pass through. It can change visible colour of light.	
incidence	The angle between the light ray and the surface it is shining on before it reflects.	
light source	Something that provides light (can be natural like the sun, or artificial like a torch).	
opaque	An object that doesn't let light pass through and creates a shadow (like a curtain or person).	
periscope	An object made of a tube/box and mirrors to allow people to see things that are out of sight.	
rainbow	A spectrum of colour.	
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. Smooth, shiny surfaces such as mirrors and polished metals	
	reflect light well. Dull and dark surfaces such as dark fabrics do not reflect light well.	
refraction	When light enters a transparent object, it appears to bend and change direction.	
shadow	A dark area or shape produced by an object blocking light.	
spectrum	A band of colours, such as a rainbow, produced by the separation of light waves during refraction.	
translucent	An object that lets some light pass through but does not allow you to see detail, only shadow. (like a	
	bathroom window).	
transparent	An object that lets most light pass through (like a window or glasses).	

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