

Year 6 Science Knowledge Organiser Light

Selected Vocabulary and Definitions

eyes	Globular organs of sight in the head of humans and vertebrate animals
filter	Pass through a device to remove unwanted material (liquid, gas, light or sound)
light	The natural agent that stimulates sight and makes things visible
Light source	Something that provides light, whether it be a natural or artificial source of light (e.g. the sun, a torch)
periscope	An apparatus consisting of a tube of attached to a set of mirrors or prisms through which an observer can see things that are otherwise out of sight.
reflection	The throwing back by a body or surface of light, heat or sound without absorbing it
refraction	The bending of light as it passes from one substance to another with the bending caused by the difference in density between two substances
spectrum	A band of colours, as seen in rainbows, produced by separation of the components of light by their different degrees of refraction
shadow	A dark area or shape produced by a body coming between rays of light and a surface

Curriculum Objectives

I can recognise that light appears to travel in straight lines.

I can 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.

I can explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.

I can use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.

Key Questions

How do we see light from a light source?

How do we see objects that are not a light source?

How does light travel?

How are the shape and size of a shadow determined?

Explain how a periscope works. Use a diagram if you need to.

Label the parts of the human eye and explain how they work.

