## Knowledge Organiser Year 6 Unit: Light

Light sources can be both natural and man-made.

A lens is a piece of transparent glass or plastic that bends light.

## Light only travels in straight lines.

## **Lesson Sequence**

•Recognise that light travels in straight lines. Explain how shadows are formed.

•. Compare materials of different transparencies.

Light can be reflected.

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•White light is a mixture of other colours from the spectrum.

•How are rainbows formed. Investigate light colour mixing.

•Describe how lenses can be used.

ROCKET WORDS Learn these words

Learn these words and their definitions.

Key Word	Definition
transparent	An object or material that allows light to pass through easily.
opaque	An object or material which doesn't allow light through.
translucent	An object or material which allows some light to pass and scatters light rays.
magnify	To make an image larger.
angle of incidence	The angle made by a light ray as it strikes a mirror.
angle of reflection	The angle made by a light ray as it reflects off a mirror.
lens	A transparent material which changes the direction of movement of light.
refraction	The action of distorting an image by viewing through a medium.



Other Vocabulary: See, seen, light source, eyes, travel, shadow, opaque, block, reflect, reflection, mirror, direction, light travelling, light beam, straight lines, cast, periscope, rearview mirror, object, shadow puppet, rainbow, colours, bend, split.



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Light filters can be used to mix or change the colour of the light. FACTOIDS: Can you find out more?

Q1. How does a lens work?
A1. They bend rays of light as they pass through so they can change path or direction.
Q2. What colours is light made up from?
Light is made up of all the colours of the spectrum / rainbow. The colour of the

light you see depends on its wavelength. Q3. How does a telescope

work? They have two lenses (one large and one small) which reflect light rather than bending it.

## Unit: Light

This unit will help you understand how light travels, as well as exploring how the path and colour of light can change. We take light for granted, but it is amazing how it travels moves, reflects and changes.