



## Sun Safety



### Lesson sequence

- 1 Describe how light travels
- 2 Understand different types of mirrors
- 3 Explain how reflective surfaces help keep us safe
- 4 Know what a periscope is and how it's used
- 5 Recognise that light from the sun can be dangerous; and there are ways to protect your eyes
- 6 Measure shadows and understand how they are formed and change

# Knowledge Organiser

## Light

Light Facts

**Light travels in straight lines.**

**Light travels at around 300,000 kilometres per second**

**Light will travel through transparent objects... ..but not opaque ones.**

**The invisible light waves from the sun are called 'ultraviolet'**

A shadow is formed when an opaque object blocks the light.



A shadow will get smaller the further the object is from the light source

Shadows change angle and length during the day due to the position of the sun in the sky.



## ROCKET WORDS

Learn these words and their definitions.



Key Word	Definition
transparent	A material that allows light to pass through it.
opaque	A material which is not able to be seen through.
reflection	An image seen in a mirror; it happens due to a change in direction of the light wave.
fluorescent	A brightly coloured reflective surface - often used by cyclists.
UV rays	Short light waves made by the sun, which are harmful to our skin.
periscope	A long tube-like object which contains mirrors at certain angles so an object can be seen around corners.
shadow	A dark shape made on a surface when an object blocks light.
sun protection	Something which prevents or reduces the effect of the sun i.e. sun hat, sunglasses, sun cream.