



Knowledge Mat: Light



How does this link to GROW?

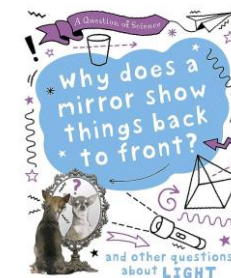
O: To gain outstanding knowledge and skills, through outstanding lessons so that we can know more and remember more, in all subjects.



Key Knowledge:

- 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.
- Shadows are shortest at noon when the sun is highest in the sky.
- Shadows are longest at the start and end of the day when the sun is at its lowest.

Books you might like:



Subject Specific Vocabulary

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

What I've learnt previously:

In Year One, I learnt about seasonal changes, and day and night.

This will help me to:

Understand how light travels, how shadows are formed and how to stay safe in the sun and the dark.

