

Science Year 3 Knowledge Organiser

Why do we have light and dark and what is its impact on our everyday life?

Key knowledge
Know why we have light and dark and its impact on our everyday life
Know what dark is (in relation to absence of light)
Know that we need light so we can see things
Know that light can be reflected
Know how a shadow is formed and why they change shape
Know the dangers of looking directly at the Sun

Vocabulary	
reflection	Occurs when a ray of light hits a surface and bounces off
shadows	Is formed when an object blocks out the light. The object must be opaque or translucent to make a shadow
opaque	Opaque objects do not allow light to pass through them, in most cases creating a shadow
refraction	It is the change of direction of a light ray as it passes through different surfaces, for example, from air to water
convex	These are lenses, also called positive lenses. Are lenses that curve outward from the edges to the centre
concave	This is a lens where the centre of the lens is thinner than the edges

Personal development: Develop an awareness of the world around them. Jobs you could do: working within science, education, theatre/arts.



Our Endpoint

I can explain how light and dark impact on our everyday lives.



Prior Knowledge–

Within the same subject

Within another subject

From personal experience