

Leesons Primary School– Knowledge Organiser

Science Focus	Light	Year 3	Summer 1
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What? (Key Knowledge)

Light and Dark.	<p>LIGHT AND DARK - We need light so that we are able to see. Dark is the absence of light.</p> <p>A light source can emit light by burning, electricity or chemical reactions, some examples include:</p> <p>Burning – sun, flames from a fire, stars. Electricity – lamps, car headlights, street lights. Chemical Reactions – light is a product of the reaction e.g. glow sticks.</p>
Reflection	<p>When light from an object is reflected by a surface, it changes direction. It bounces off at the same angle it hits it. Smooth, shiny surfaces such as mirrors and polished metals reflect light well. Dull and dark surfaces such as dark fabrics do not reflect light well.</p>
Shadow	<p>A dark shape that appears on a surface when something stands between the light source and the surface</p>

What should I already know?

As the light source moves higher in relation to the object, the shadow gets shorter. As the light source moves lower, the shadow gets longer.



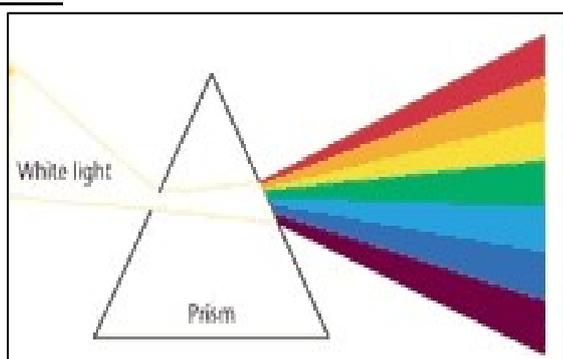
What? (Key vocab)

Spelling	Definition
Light Source	An object that emits its own light
Emits	To emit light means to produce it
Opaque	You cannot see through it.
Transparent	You can see through it .
Translucent	Some light can pass through it.
Reflects	When a light ray hits a surface and bounces off
Refraction	When light passes through a different object and its direction changes.
Spectrum	A range of colours caused when white light is refracted. A rainbow shows a spectrum of colours.

Diagrams and Symbols

Prism-A solid 3D shape where two end faces are similar and parallel.

Diagram showing light travelling through a prim.



Possible experiences

- The national Science Museum in South Kensington visit.
- Visit a sensory room to further enhance our learning of light topic in science.
- Visit the Royal observatory Greenwich to marvel at the UK's largest lensed telescope.