

# Year 3/4: Light Knowledge Mat

## Subject Specific Vocabulary Dozen

<b>light</b>	A form of energy that travels in a wave from a source.
<b>Sun</b>	A star at the centre of our solar system. It gives light and heat to our world.
<b>light source</b>	An object that makes its own <b>light</b> .
<b>natural light source</b>	These are light sources that give out light naturally. Examples are the sun, fire and stars
<b>artificial light source</b>	These are man-made devices that give off light. Examples are: light bulbs, torches and TV screens.
<b>opaque</b>	Describes objects that do not let any <b>light</b> pass through them.
<b>translucent</b>	Describes objects that let some <b>light</b> through, but scatter the <b>light</b> so we can't see through them properly.
<b>transparent</b>	Describes objects that let <b>light</b> travel through them easily, meaning that you can see through the object.
<b>reflect</b>	To bounce off.
<b>reflective</b>	A word to describe something which <b>reflects light</b> well.
<b>shadow</b>	An area of darkness where <b>light</b> has been blocked.
<b>surface</b>	The outer part or top layer of a body or thing.

## What I will know at the end of the unit:

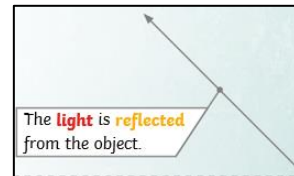
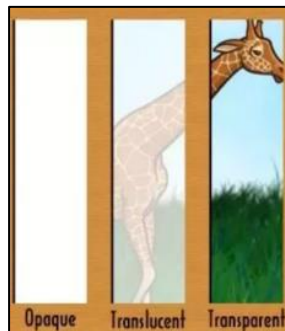
To recognise that they need light in order to see things and that dark is the absence of light.

Notice that light is reflected from surfaces.

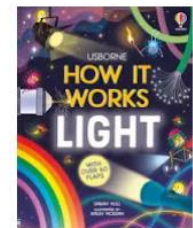
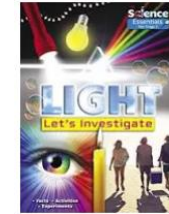
Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.

Recognise that shadows are formed when the light from a light source is blocked by a solid object.

Find patterns in the way that the size of a shadow changes.



## Exciting Books



## Sticky Knowledge about light

- We see objects because our eyes can sense light. Dark is the absence of light. We cannot see anything in complete darkness.
- Some objects, for example, the sun, light bulbs and candles are sources of light.
- Objects are easier to see if there is more light. Some surfaces reflect light. Objects are easier to see when there is less light if they are reflective.
- The light from the sun can damage our eyes and therefore we should not look directly at the sun and can protect our eyes by wearing sunglasses or sunhats in bright light.
- Shadows are formed on a surface when an opaque or translucent object is between a light source and the surface and blocks some of the light. The size of the shadow depends on the position of the source, object and surface.