<u>Year 4 Knowledge Organiser – Light</u>



I know...

Light is a form of energy emitted by a range of natural (the sun and fire) and man-made (torches, lightbulbs and candles) light sources. Light travels in straight lines, if something is blocking the light it cannot pass through it or travel around it. This creates a shadow. The opposite of light is dark, this is the absence/lack of light.

Some materials and objects are reflective, this means they let light bounce off them so they can be seen clearly. This includes coats, reflective strips on book bags, cat eyes and road signs. Reflective materials are important because they keep people safe, especially at night when there isn't a lot of light.

I know the difference between opaque, translucent and transparent materials and can use a torch to put items into categories.

<u>Keyword</u>	Definition
UV light	Ultraviolet light that is radiated from the sun.
Light	A form of energy.
Light source	Something that emits light.
Dark	The absence of light.
Opaque	Something that doesn't let any light through.
Translucent	Something that some light pass through it but it is scattered.
Transparent	Something that lets light through and you can see through it.



Did you know...

- Our main source of light on Earth comes from the Sun. A ray of light travels very fast. The speed of light in space is approximately 300 million metres per second.
- It takes just over 8 minutes for light to travel from the Sun to Earth a distance of 93 million miles.
- The white light from the Sun is made up of the seven colors (spectrum) of the rainbow