

# SMRP Science Knowledge Organiser for Year 3 LIGHT

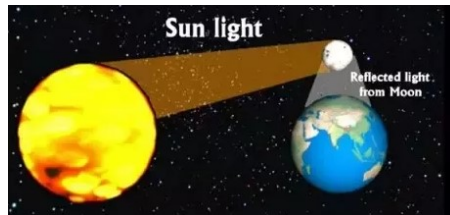
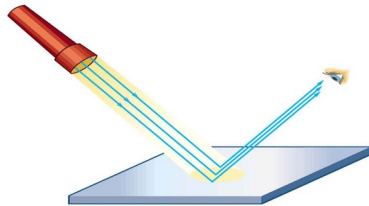
## Science knowledge

**Light** is a form of energy that helps us to see the world around us. If there is no light then it is dark and cannot see anything.

Examples of different light sources:



Light travels in straight lines from a **light source**, but it **reflects** off shiny surfaces such as **mirrors** and water. Surfaces like these are called **reflective**. Some surfaces appear less bright than others because they **absorb** more light than they reflect.



### Did you Know?

The moon is not a light source because it actually reflects light from the sun! This light travels all the way to our eyes, so we are able to see the moon. Without light we would not be able to see anything.

A **shadow** is produced when an **opaque** object blocks a source of light.

The closer an object is to the **light source**, the larger the **shadow** it casts.

This is because an object **closer** to the **source** will block a larger area of the **light**, increasing its **shadow** size



## Science Vocabulary

Word	Definition
<b>shadow</b>	The dark shape made when something blocks light from a
<b>reflective</b>	A surface which light bounces
<b>mirror</b>	A highly reflective surface, usually made from glass backed
<b>opaque</b>	Light can not pass through
<b>ultraviolet light</b>	light rays that are invisible to the human eye
<b>translucent</b>	letting only some light through
<b>transparent</b>	Light completely passes through it.

Never look directly at the sun as it can damage your eyes. The ultraviolet rays from the sun can also burn your skin. You can protect yourself from the sun on really hot days by wearing sunglasses and applying sun cream to your skin.

