## Year 6 Light Knowledge Organiser

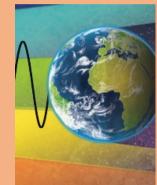


## **Star Vocabulary**

A form of energy
that travels in a
wave from a source.
When light bounces
off an object.
shadow An area of
darkness where
light has been
blocked.
Objects that let
some light through.
Objects that let light
travel through
easily.
Objects that don't
let light pass
through.
When light bends
from one medium
to another.

Recognise the purpose of light and how we need it to see things.

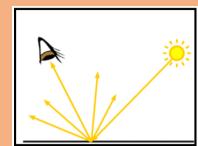
We need light to be able to see things. Light waves travel out from sources of light in straight lines. These lines are often called rays or beams of light.



Discuss the similarities and differences between light waves and waves in matter.



Because light travels in straight lines, shadows take the shape of the objects that cast them. Light is blocked by the outline of the object and does not pass behind it.





Some objects reflect light more than others. This depends if the surface of the object is mirrored, glossy or matt.



## **Progression**

Recognise that they need light in order to see things and that dark is the absence of light. Recognise that shadows are formed when the light from a light source is blocked by an opaque object. Find patterns in how shadows change. Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.

Notice that light is reflected from surfaces. Understand that light is harmful to our eyes.

Recognise that light appears to travel in straight lines. Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.

Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.