



Year 6 Science (Physics) Light Knowledge Organiser

Subject Specific Vocabulary

light	Light is a form of energy .
dark	The absence of light.
light source	Light sources make their own light, such as a candle or the sun.
opaque	Something that is opaque cannot be seen through and does not allow light to pass through it .
reflection	Reflection is when light bounces off a surface, changing the direction of a ray of light.
refraction	This is when light bends as it passes from one medium to another. e.g. Light bends when it moves from air into water.
shadow	An area of darkness where light has been blocked.
translucent	If an object is translucent, it means that some light passes through it, but the light is scattered, so you can't see clearly through it .
transparent	If an object or material is transparent, it means light completely passes through it, and you can see clearly through it .

Key Knowledge

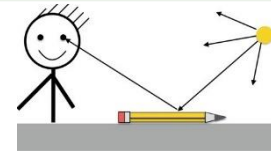
At the end of this unit I will know that:

Light appears to travel in straight lines, and we see objects when light from them goes into our eyes.

We see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.

Objects that block light (are not fully transparent) will cause shadows.

Because light travels in straight lines, the shape of the shadow will be the same as the outline shape of the object.



Fun Facts

Light travels VERY FAST – around 300,000 kilometres per second. It can go around the world eight times in one second. Light travels much faster than sound. e.g. Thunder and lightning start at the same time, but we will see the lightning first.

Space does not have any light. We can see things in space due to light bouncing off of the objects in space.

Light can be controlled and produced in so many ways. A camera can control the amount of light that comes into the camera lens. We also use light in televisions, medical systems, copy machines, telescopes and satellites.