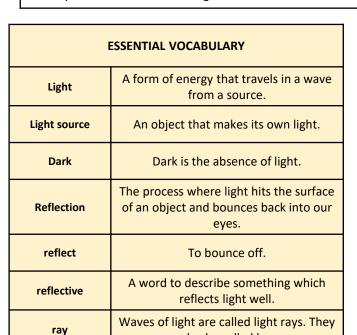
SCIENCE KNOWLEDGE ORGANISER

Key Questions

- What is light?
- How are shadows formed?
- Why do we need to wear sunglasses?





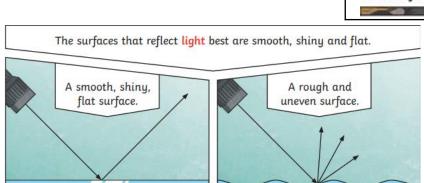


Reflections

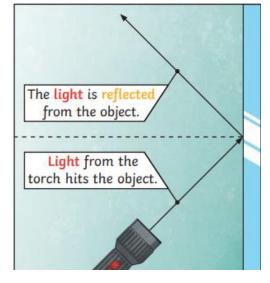
We need light to be able to see things. Light travels in a **straight line**. When light hits an object, it is **reflected (bounces off).** If the reflected light hits our eyes, we can see the object. Some surfaces and materials reflect light well. Other materials do not reflect light well. Reflective surfaces and materials can be very useful such as...







can also be called beams.

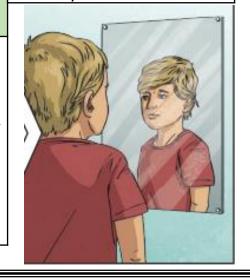


Mirrors

Mirrors reflect light very well, so they create a clear image. An image in a mirror appears to be reversed. For example, if you look in a mirror and raise your right hand, the mirror image appears to raise its left hand.

Outcomes

- Identify light sources.
- Understand that we need light to see.
- Know that light travels in a straight line.
- Identify reflective surfaces.
- Know that the sun can damage their eyes.
- Know how to protect their eyes from the sun.



SCIENCE KNOWLEDGE ORGANISER

Key Questions

What is light?

Translucent

Transparent

- How are shadows formed?
- Why do we need to wear sunglasses?

ESSENTIAL VOCABULARY

Pupil	The black part of the eye which lets light in.
Retina	A layer at the very back of the eye. The retina takes the light the eye receives. It then changes it into nerve signals to send to the brain.
Shadow	An area of darkness where light has been blocked.
Opaque	Describes objects that do not let any light pass through them.
Translucent	Describes objects that let some light through but scatter the light

so we can't see through them

properly.

Describes objects that let light

travel through them easily,

meaning that you can see

through the object.

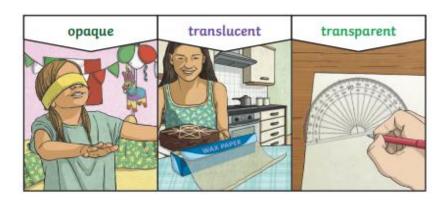
Shadows

A shadow is caused when light is blocked by an opaque object. A shadow is larger when an object is closer to the light source. This is because it blocks more of the light.



When light source is to one side an object, the shadow will appear on the opposite side. The shadow will also

sunset



Key Knowledge

The pupils control the amount of light entering the eyes. If too much light enters, then it can damage the retina. To help protect the eyes, you can wear a hat with a wide brim and sunglasses with a UV rating.

