Year 3

Intent:

Unit: Light

To recognise that we need light in order to see things, and that dark is the absence of light. Recognise that light from the sun can be dangerous.

Recognise that shadows are formed when the light from a source is blocked by an opaque object.

from the object.

Light from the

torch hits the object.

Prior learning

FYES – Talk about the differences in materials and changes they notice. EYFS - Describe what they see, hear, and feel whilst outside.

Year 1 – Identify, name, draw, and label the basic parts of the human body and say which part of the body is associated with each sense.

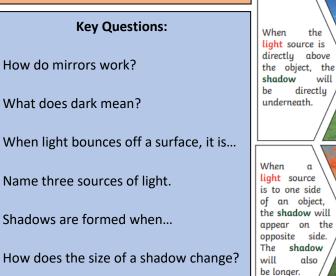
Year 1 – Describe the simple properties of a variety of everyday materials.

Later learning (not in Year 3)

Year 6 – Recognise that light appears to travel in straight lines.

Year 6 – Objects are seen because they give out or reflect light into our eyes. Year 6 – Explain that we see things because light travels from a source to our eyes or

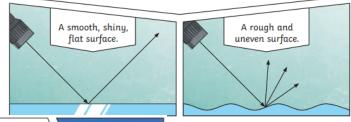
from a source to an object and then to our eyes.



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 The light is reflected surfaces and materials reflect light well. Other materials do not reflect light well. Reflective surfaces and materials can be very useful...

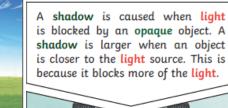


The surfaces that reflect light best are smooth, shiny and flat.

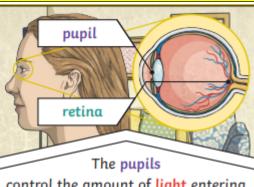


middau

sunset

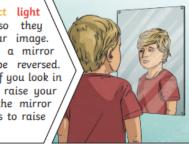


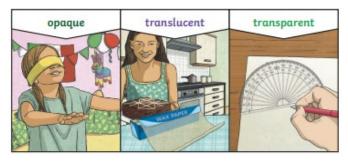




control the amount of light entering the eyes. If too much light enters, then it can damage the retina. To help protect the eyes, you can wear a hat with a wide brim and sunglasses with a UV rating.

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.





Vocabulary	
Angle	The direction from which you look at something.
Bright	A colour or light that is strong and noticeable and not dark.
Chemical reactions	A process that involves changes in the structure of something.
Dark	The absence of light.
Dim	A light that is not bright.
Electricity	A form of energy that can be carried by wires and is used for heating, lighting, and to provide power for machines.
Emits	To produce something.
Light	A brightness that lets you see things.
Mirror	A flat piece of glass which reflects light so that when you look at it you can see yourself reflected in it.
Opaque	You cannot see through the substance or object.
Product	Something that is produced.
Reflects	Sent back from the surface and does not pass through it.
Shadows	A dark shape on a surface that is made when something stands between a light and the surface.
Source	Where something comes from.
Sunglasses	Glasses with dark lenses which you wear to protect your eyes from bright sunlight.
Surface	The flat top part of something or the outside of it.
Torches	A small electric light which is powered by batteries and which you can carry.
Translucent	Some light can pass through it.
Transparent	You can see through it.