

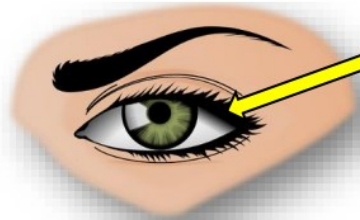
LIGHT

LIGHT SOURCES

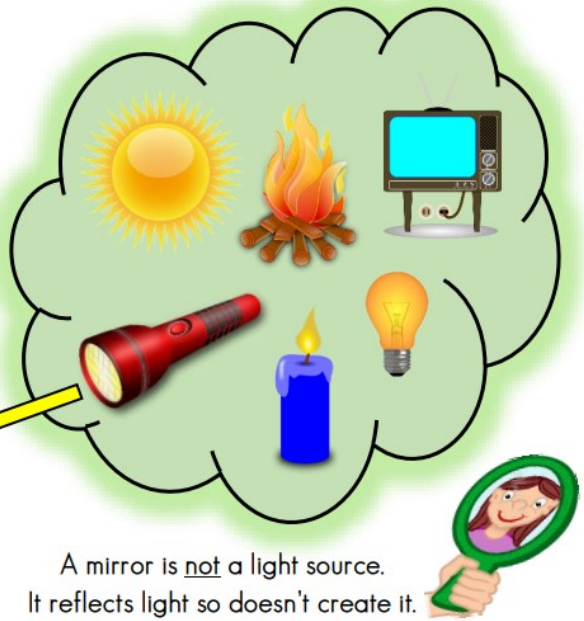
Key Vocabulary	
light	The brightness that makes you see things
light source	Something that provides light
dark	Dark is the absence of light We cannot see anything in complete darkness
shiny	A smooth surface that reflects light easily
mat	A surface that is dull or flat without any shine
surface	The outside part or layer of something
shadow	A dark area or shape caused by an opaque object blocking the light
reflect	When light is thrown back from an object without absorbing it
mirror	A surface which reflects a clear image
sunlight	The light source that come from the sun - never look directly at the sun as this is dangerous



Light travels in straight lines. It travels from the light source either directly into our eyes, or reflecting off objects at 670 million mph.



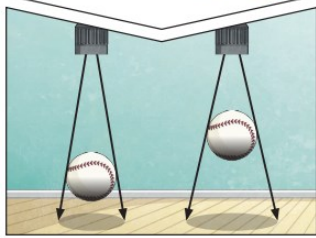
Because light travels in straight lines, when it hits an object, it is blocked. It can't bend around the object so it



A mirror is not a light source. It reflects light so doesn't create it.

Light Knowledge Organiser Year 3/4

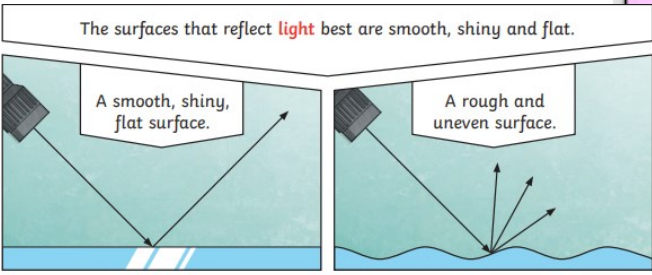
A shadow is caused when light is blocked by an opaque object. A shadow is larger when an object is closer to the light source. This is because it blocks more of the light.



Opaque: This is the name given to objects which light *cannot* travel through. They block light and create shadows

Translucent: This is the name given to objects which *some* light can travel through.

Transparent: This is the name given to objects which light *can* travel through.



Key Questions	
What is a light source?	A light source can be natural (such as the sun) or man-made (such as a torch or light bulb). It provides light so that we are able to see things. Objects are easier to see if there is more light. The sun can damage our eyes if we look directly at it so we should never do this.
How are shadows formed?	Shadows are formed on a surface when an opaque or translucent object is between a light source and the surface, blocking some of the light.
How do shadows change?	The size of the shadow depends on the position of the source, the object and the surface. When the light source hits the object at an angle, the shadow will be longer.