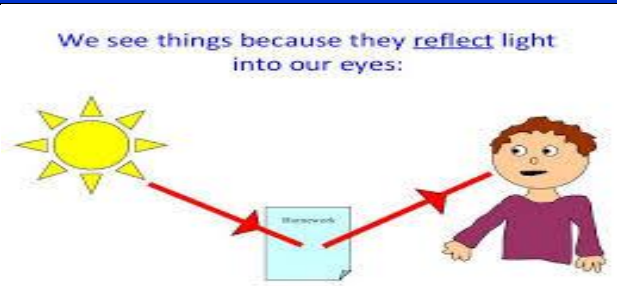
John Emmerson Batty Primary School Knowledge Mat

Year Group 3: Light

Subject Specific Vocabulary

Light source	An object that makes its own light.
dark	Dark is the absence of light.
reflection	The process where light hits the surface of an object and bounces back into our eyes.
reflect	When light rays reflects off a surface or when a surface reflects them, they are sent back from the surface and do not pass through it.
reflective	A word to describe something which reflects light well.
pupil	The back 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.
transparent	Describes objects that let light travel through them easily, meaning that you can see through the object.

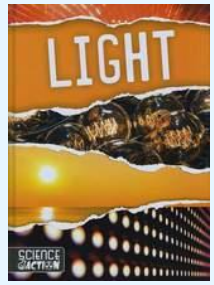
Memorable Image



Sticky Assessment Knowledge

- ☐ I can identify sources of light and understand that we need light to see.
- ☐ I know that darkness is the absence of light.
- ☐ I know that we can see things because light bounces off them.
- ☐ I know that somethings only reflect light and they are not a light source.
- ☐ I can explain how a mirror works.
- ☐ I understand the terms 'opaque', 'translucent' and 'transparent'.
- ☐ I understand the importance of transparency of a material in its use.

Exciting Books



Useful Websites

BBC Bitesize
https://www.bbc.co.uk/bitesize/topics/zbssgk7/articles/z2s4xfr

ducksters.com
https://www.ducksters.com/science/light.php

Misconceptions and Facts

- Light travels at 300,000km per second.
- Light is a kind of energy that can move in waves and it is made up of a flow of small particles of energy called **photons.**