



Science Topic : Light

Year 3

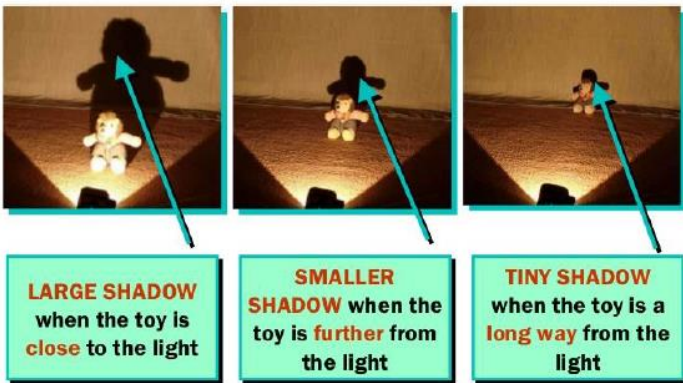
Term 2

Key Knowledge

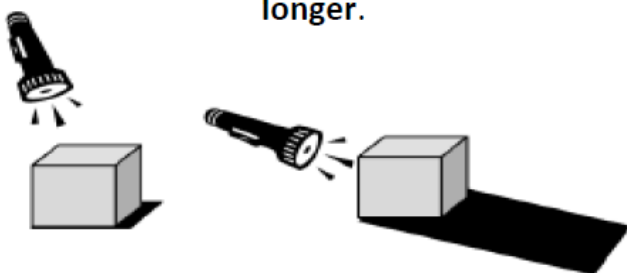
- I know that we see things because light enters our eyes.
- I know that some sources give out light.
- I know that when there is no light it's dark and you can't see things.
- I know that light reflects (bounces) off surfaces.
- I know that it's dangerous to look at the sun, even with dark glasses on.
- I know that solid objects can block light, making a shadow.
- I know that the more directly overhead a light source is, the shorter the shadow it will make.
- I know that the closer a light source is to an object, the larger the shadow it will make.
- I know that light travels in a straight line.

Key Vocabulary

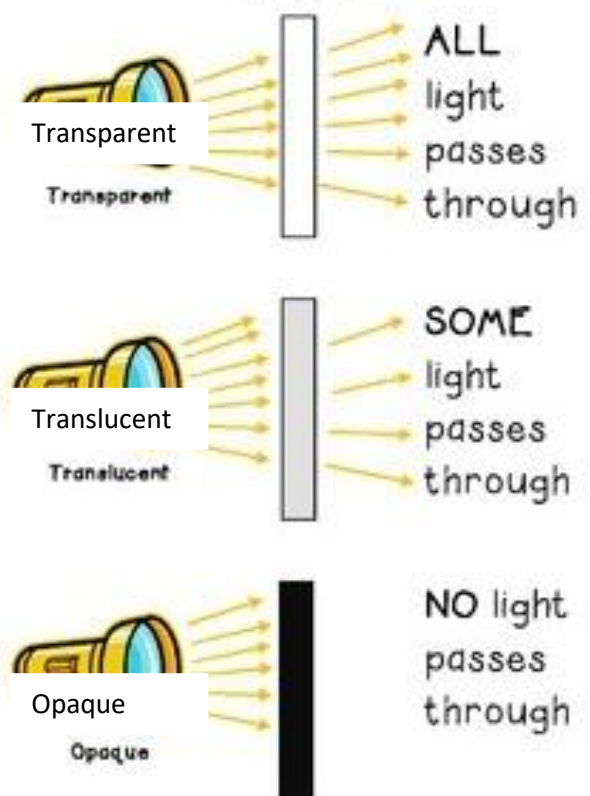
Light source	An object that produces its own light (e.g. sun, fire).
Reflection	When a light hits a surface and 'bounces' off.
Refraction	When light passes through a different object and its direction changes.
Opaque	An object which <b>does not allow</b> light to pass through it (e.g. wood).
Translucent	An object which <b>allows some</b> light to pass through it. It may be possible to see some unclear images through the object (e.g. tissue paper).
Transparent	An object which <b>allows</b> light to pass through it so that objects behind it can be easily seen (e.g. glass).
Spectrum	A range of colours caused when white light is refracted. A rainbow shows a spectrum of colours.
Rainbow	An arch of colour caused by the refraction of light on water droplets in the air, usually rain (Red, Orange, Yellow, Green, Blue, Indigo, Violet).
Shadow	A dark area or shape caused by the blockage of light.



As the **light source** moves **higher** in relation to the **object**, the **shadow** gets **shorter**. As the **light source** moves **lower**, the **shadow** gets **longer**.



Translucent, Transparent & Opaque



The sun is a source of light. The moon is not a source of light. We can see it because it **reflects** light from the sun.