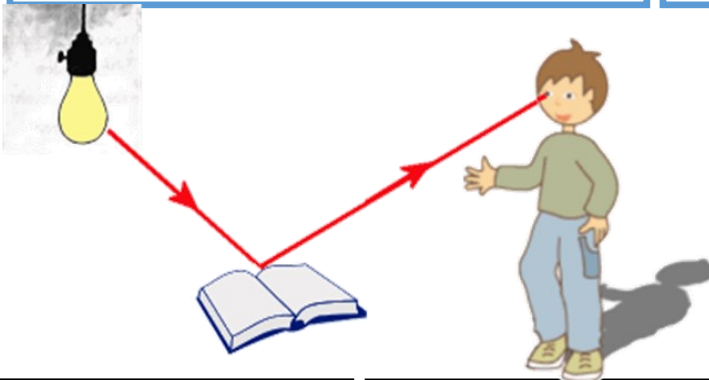


Year 6 Science : Light

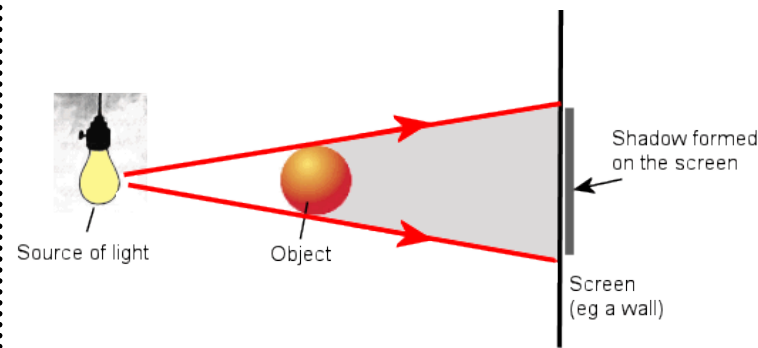
Prior Learning

- I recognise that I need light in order to see things.
- I know that dark is the absence of light.
- I notice that light is reflected from surfaces.
- I understand that light from the sun can be dangerous and that there are ways to protect our eyes.
- I know that shadows are formed when the light from a light source is blocked by an opaque object.
- I can find patterns in the way that the size of shadows change.



Sticky Knowledge

- I know that light appears to travel in straight lines.
- I can explain that objects are seen because they give out or reflect light into the eye.
- I can explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- I can explain why shadows have the same shape as the objects that cast them.



Vocabulary

Light	The natural energy that stimulates sight and makes things visible.
Light Source	Something that provides light, whether it be a natural or artificial source of light (e.g. the sun, a torch).
Opaque	A material that does not allow light to travel through it.
Periscope	An apparatus consisting of a tube of attached to a set of mirrors or prisms. Light travels through a periscope, reflecting off each mirror so that things can be seen which are out of sight.
Rainbow	An arch of colours visible in the sky, caused by the refraction and dispersion of the sun's light by rain or other water droplets in the atmosphere.
Reflection	Where light is thrown back by a surface without absorbing it. A mirror reflects light.
Refraction	The bending of light as it passes from one substance to another. This can be seen as light travels through the air, and then through glass or water.
Shadow	A dark area or shape caused by object preventing light travelling from a light source to a surface.
Spectrum	A band of colours, as seen in rainbows, produced by separation of the components of light by their different degrees of refraction.
Translucent	A material that allows some light to travel through it.
Transparent	A material that allows light to travel through it, making the object see through, such as glass.

