Science study

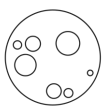
INTRODUCE Light

Year ___ _____ Term

These ARE sources of light

NOT sources of light

The Moon and shiny tin foil



To see we must have light.

light reflects off an object

enters our eyes

no light = no sight

object can't be seen without light

darkness is the absence of light

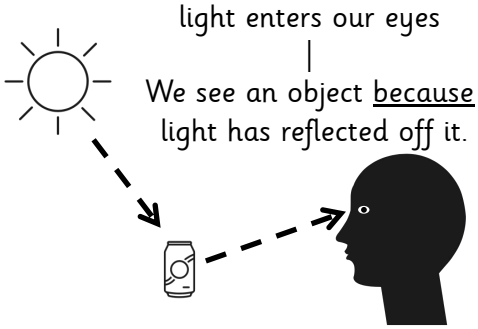
Light

Dark

light reflects off a surface

light enters our eyes

We see an object <u>because</u> light has reflected off it.



Light does NOT come from our eyes.
We use arrows to show the direction light travels from the source. ➔

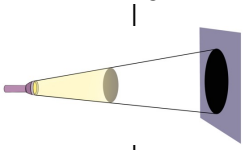
NEVER look directly at the sun or at bright light sources such as torches.

damage your eyes

You can protect your eyes

shadows form

opaque object blocks the light



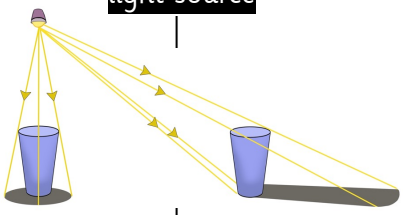
opaque objects let NO light through and cast shadows

translucent - lets some light through

transparent - lets all light through

shadows change length

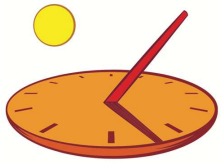
depending on the position of the light source



source directly above = short shadow

source further away = longer shadow

shadows change length as the Earth rotates



sun dials cast shadows

tell the time during the day

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