

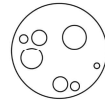


These **ARE** sources of light



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



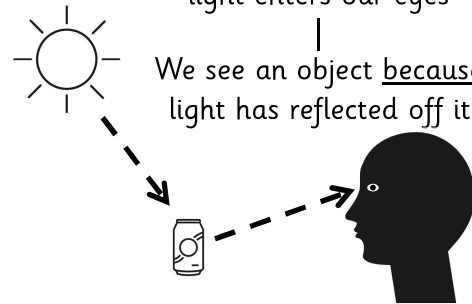
darkness is the absence of light

Light

light **reflects** off a surface

light enters our eyes

We see an object because
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



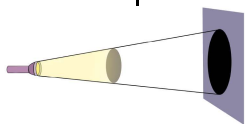
You can **protect** your eyes



Dark

shadows form

opaque object blocks
the light



opaque objects let
NO light through and
cast shadows

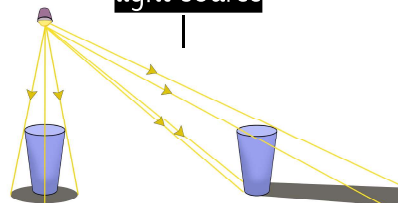
translucent - lets some light
through

transparent - lets all light
through



shadows change length

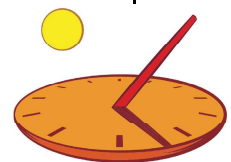
depending on the position of the
light source



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