

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

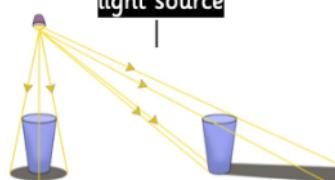
Dark

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

damage your eyes

You can **protect** your eyesshadows **form**opaque object blocks  
the lightopaque 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 shadowsource **further away** = longer shadowshadows change length as  
the Earth rotates**sun dials** cast shadowstell the time during the  
day