

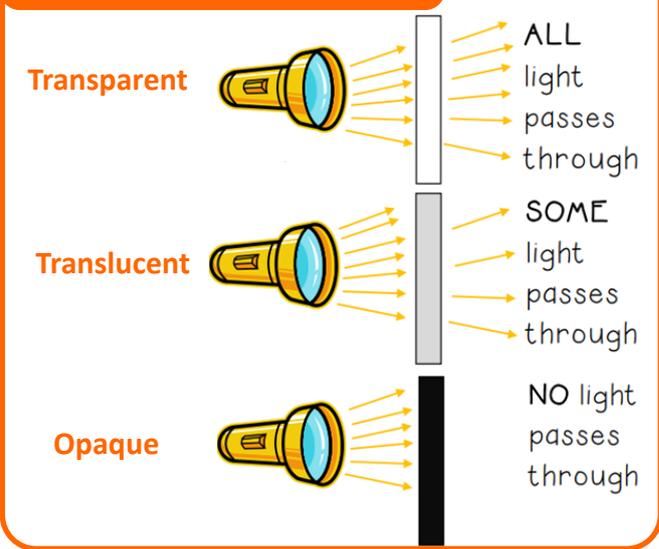
Reflective jackets are coated in reflective glass beads that reflect light back to the cars' headlights.

The moon is not a light source. It appears to glow because light from the sun reflects off its surface.

Vital Vocabulary

Key Word	Definition
light source	An object that gives out its own light
shadow	A dark shape on a surface that is made when an opaque object blocks light
reflect	When rays of light bounce back from a surface
Transparent	An object that allows all light to pass through
Translucent	An object that allows some light to pass through
Opaque	An object that blocks all light

Light passing through objects



Light sources

We need light to see things. Dark is the absence of light.

Natural **light sources**

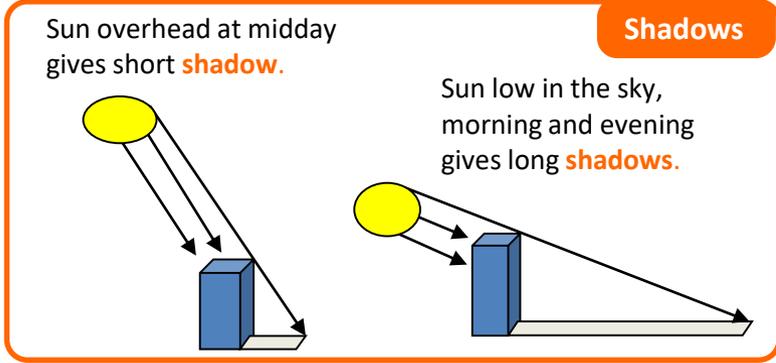
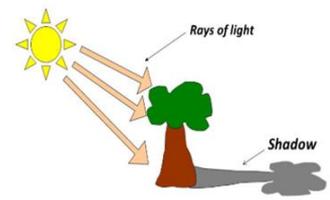
Man-made (artificial) **light sources**

When light hits an object, it is **reflected** off. If the light hits our eyes, we can see the object.

Shiny surfaces **reflect** light well because they are smooth. Some **reflective** materials can be very useful!

Shadows

Shadows are formed when **opaque** objects block light. They are the shape of the object that made them. The size of the **shadow** changes as the **light source** moves. As the light source moves higher above the object, the shadow gets shorter. As the light source moves lower, the shadow gets longer.



Percy Shaw

Percy Shaw invented 'cat eyes', which are reflective road studs used to help cars see where the boundaries of the road are in the dark.