



# As Scientists, our big question is... How can you light up your life?



## REMEMBERING



# Prior Learning

I can recognise that we need light in order to see things and that dark is the absence of light.

I know that light is reflected from surfaces.

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.

## UNDERSTANDING



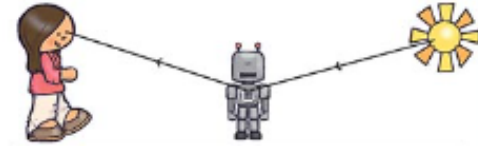
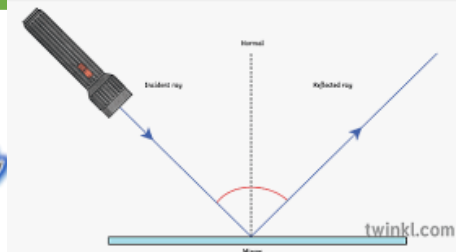
# Sticky Knowledge

Can I recognise that light appears to travel in straight lines?

Can I use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye?

Can I 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?

Can I use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them?



## APPLYING



# My Aspirations

Photographers need to have a good understanding of light in order to produce good quality photographs.

## Vocabulary

Light	Incident ray	Reflected ray	Law of reflection	Refraction	Visible spectrum
A form of energy that travels in a wave from a source.	A ray of light that hits a surface.	A ray of light that has bounced back after hitting a surface.	The angle of the incident ray is equal to the angle of the reflected ray.	When light bends as it passes from one medium to another.	Light that is visible to the human eye.