

# Why is light important?

## What is light?



We need light to see things.

If it's completely dark then there is no light.

The more light there is, the easier it is to see objects.



## What is reflection?



Shiny surfaces reflect light very well.

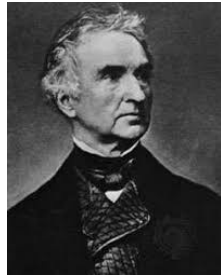


Matt surfaces don't reflect light very well.



### Significant scientist

**Justus von Liebig**  
(1803-1873)



Justus von Liebig was a German chemist. In 1835 he developed a process for applying a thin layer of metallic silver to one side of a pane of clear glass. This technique was soon adapted and improved, allowing for the mass production of mirrors.

## How are shadows formed?



Shadows are formed when a solid object blocks the light source

We can change the size of the shadow by changing some of the factors creating it



<u>Vocabulary</u>	<u>Definition</u>	<u>Vocabulary</u>	<u>Definition</u>
Light	A type of energy that travels in a straight line from a source	Rays	Waves of light are called light rays, they can also be called beams.
Light source	An object that makes its own light.	Shadow	An area of darkness where light has been blocked.
Dark	Dark is the absence of light.	Opaque	Describes objects that do not let any light pass through them.
Reflect	To bounce off	Translucent	Describes objects that let some light through them, but we can't see through properly.
Reflection	The process when light hits the surface of an object and bounces back into our eyes.	Transparent	Describes objects that let light through them easily, meaning that we can see through the object.
Reflective	A word to describe something that reflects light well.	Retina	The part at the back of the eye which sends signals to the brain and can be damaged by too much light.