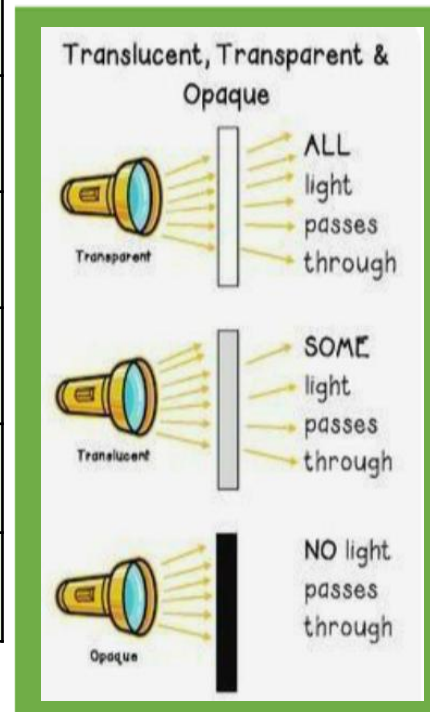
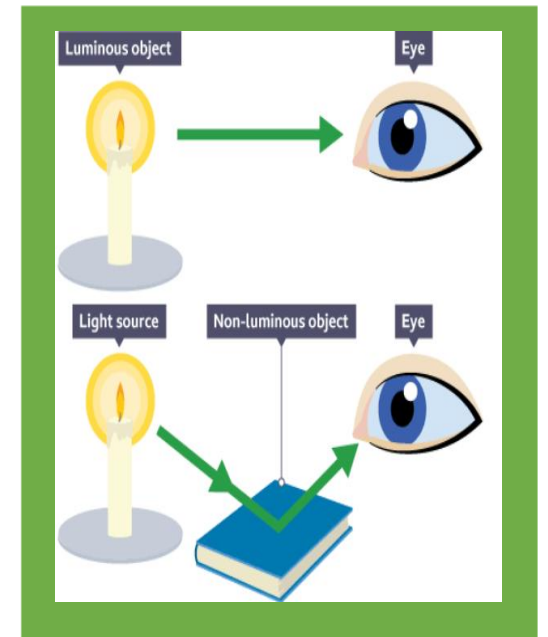
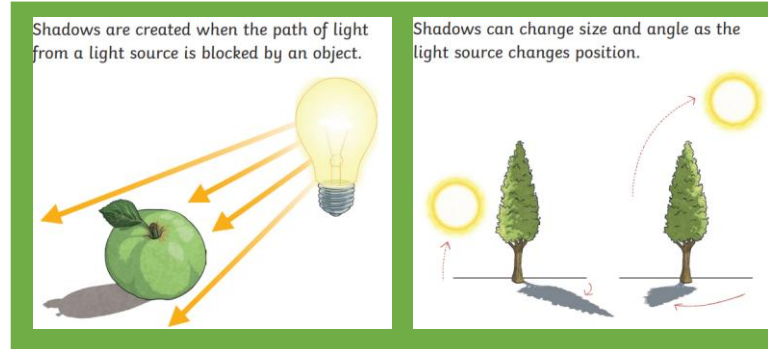


# How does the distance from a light source change the size of a shadow?

## ESSENTIAL VOCABULARY

light	Light helps us see things.
Light source	A light source makes its own light, like the Sun or a torch.
dark	Darkness is when there is no light.
reflection	Reflection is when light bounces off a surface.
shadow	A shadow is a dark shape made when light is blocked.
opaque	Opaque objects do not let light pass through them.
Translucent	Translucent objects let some light through, but you cannot see clearly through them.
Transparent	Transparent objects let light pass through so you can see clearly through them



## Ibn al-Haytham



Ibn al-Haytham was a clever scientist who studied light and how we see. He discovered that light travels in straight lines and enters our eyes, helping us see objects.

# Science - Light



Torches, screens on devices and candles are all examples of **artificial light sources**.



The Sun and lightning are **natural light sources**. Some living things, such as anglerfish, produce light. This is known as bioluminescence.

## What I will know at the end of this unit.

- I will know that we need light to see things and that darkness means there is no light.
- I will know that light can bounce off surfaces (this is called reflection).
- I will know that light from the Sun can be dangerous and how to protect my eyes.
- I will know that shadows are made when light is blocked by an opaque object.
- I will know that shadows change size depending on where the light source is.