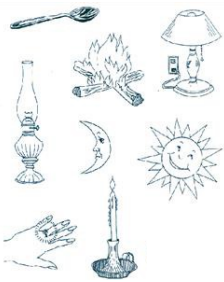




# Knowledge Organiser

Science—Light  
Year 3

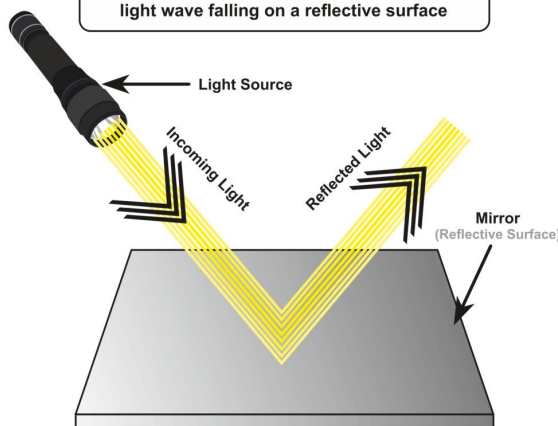
## How we see things



- Light **sources** are things that make light.
- Light beams travel in straight lines from a light source into our eyes.

### Light Reflection

Light reflection is a change in the direction of light wave falling on a reflective surface



\* The reflective surface is smooth and shiny such as glass and mirror

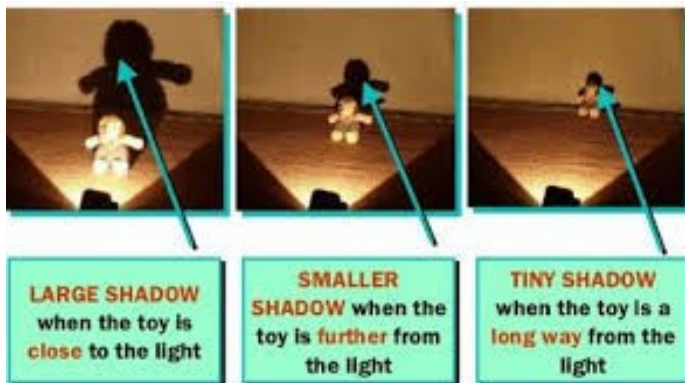
- Light beams also bounce (reflect) off surfaces and into our eyes, which is how we see things.
- This all happens incredibly fast! Light speed is that fastest thing that we know of.

## Key Vocabulary

dark/ darkness	the absence of light in a place.
illuminate	meaning to light up. E.g. A flash of light illuminated the house.
opaque	a material you are not able to see through
reflection	when light hits the surface of an object and then that light travels to our eyes so we can see.
shadow	an area of darkness produced by an object coming between rays of light and a surface.
source	where something comes from.
translucent	a material allowing light, but not detailed shapes, to pass through
transparent	a material allowing light to pass through so that objects behind can be seen clearly.

## Shadows

- Darkness is where there is no light.
- Shadows are formed when something opaque gets in the way of a beam of light.



- The distance of an object from a light source will affect the size of a shadow.

## What I can do at home

<b>Investigate</b>	Using a light source such as a torch, investigate things around your home. What makes the best shadow? Does everything make a shadow?
<b>Explore</b>	Look around your house and outside. What light sources can you see? Are some better than others? Why?

## Communicate

Talk to an adult at home about the things below. You don't need to record this.

What do you think is the most useful light source and why?

The sun? A torch? A candle?