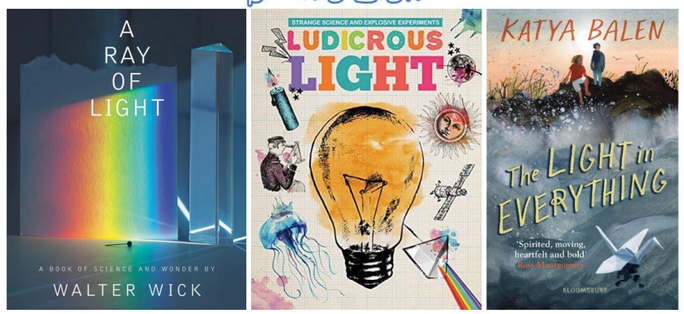
Year 6

Light

~Golden Thread of Reading~
Science Reading Spine
Seeing Light



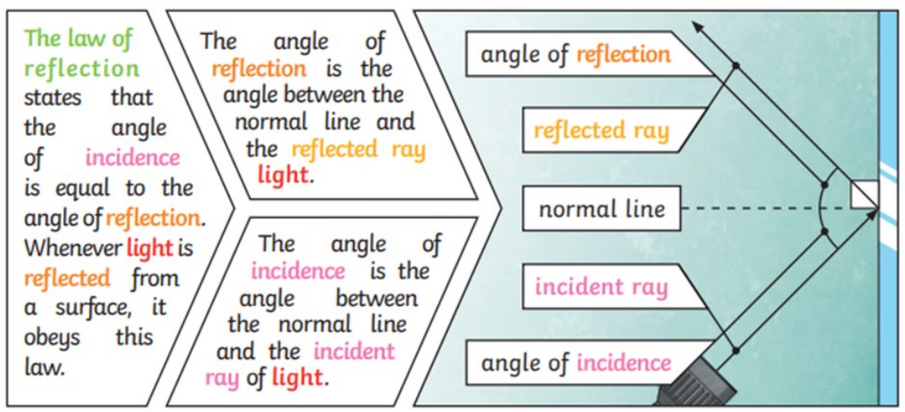
Expert vocabulary	

Science	Year 6	Light

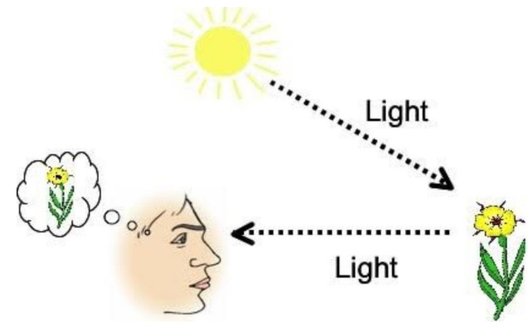
Pre existing knowledge

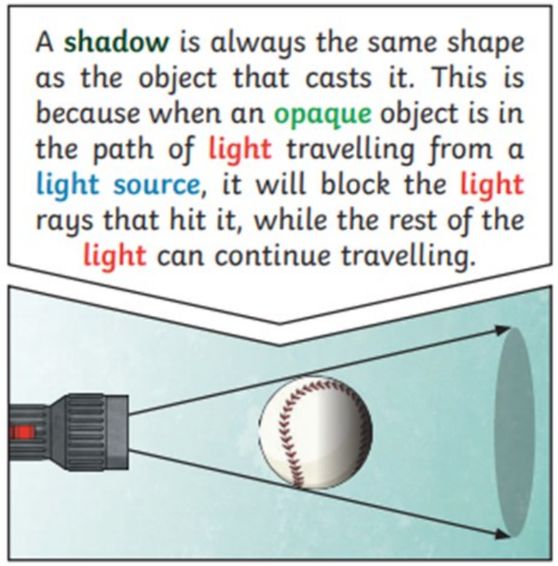
- Certain things produce light, usually by burning (e.g. the Sun) or electricity (e.g. street lights)
- Shiny materials do not make light but do reflect it.
- Shadows are caused when certain materials block light.
- Light travels in straight lines. When light is blocked by an opaque object, a dark shadow is formed.
- The further away the light source is, the smaller the shadow is. The closer the source of the light, the bigger the shadow.

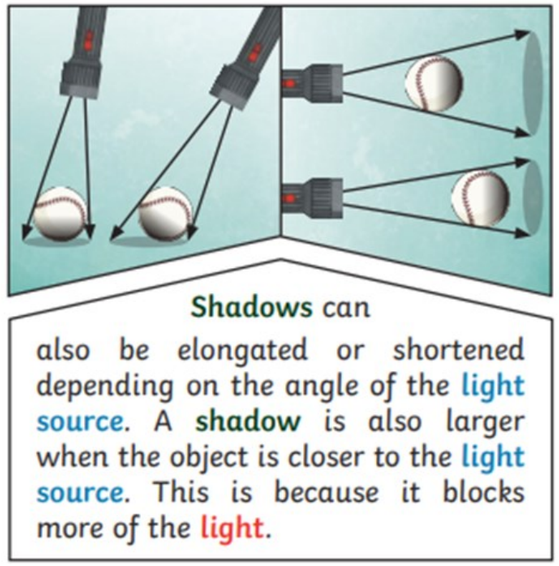
Vocabulary	
Angle	The direction in which you look at something.
Dark	The absence of light.
Dim	Light that is not bright.
Source	Where something comes from.
Surface	The flat top part of something or the outside of it.
Translucent	Some light can pass through.
Transpar-ent	You can see through it.
Mirror	Flat piece of glass which reflects light, when you look at it you can see yourself reflected in it.
Opaque	You cannot see through it. No light passes through.
Reflects	Sent back from the surface, not through it.
Shadows	A dark shape on a surface that is made when the light is blocked by an object.
Torches	A small electric light which is powered by batteries, which you can carry.



How we see:







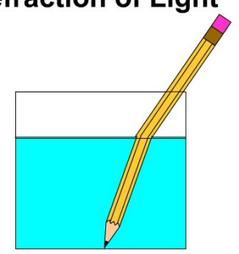
How does light travel?

Light travels in a straight line.

When you place a torch on a table in a dark room, the beam travels in a straight line.

Reflection is when light bounces off a surface - this changes the direction in which the light travels.

Refraction of Light



Light bends inwards because the speed of light is slower in water