

What? (Key Knowledge)	
Light Sources	
We need light in order to see things. When there is no light we say it is dark.	
What is a light source?	A light source is something that makes its own light.
Examples of light sources.	
Important	The moon is not a light source. It appears bright in the sky as it reflects light from the sun.
More about light	
Things you need to know about light	Light travels in straight lines
	Light travels very, very fast – 186,282 miles per second (that's like travelling around the world over 7 times in a second)
	If something gets in the way of light, a shadow is formed.
Shadows	
How is a shadow formed?	When light from a source is blocked by an opaque, you get a shadow.
How does the size of the shadow change?	When an object is moved closer to the light sources, the shadow gets bigger.
	If an object is moved further away from the light source, the shadow gets smaller.
Key people	
Isaac Newton	Discovered how the light in a rainbow is formed.
Thomas Edison	Invented the lightbulb.

What? (Key vocabulary)	
Light source	Something that provides light, whether it be a natural or artificial source of light (e.g. the sun, a torch)
Shadow	A shadow is a dark area where light from a light source is blocked by an opaque object.
Reflection	The throwing back by a body or surface of light, heat or sound without absorbing it
Refraction	The bending of light as it passes from one substance to another. The bending is caused by the difference in density between two substances. For example, when light travels from air into water, it slows, causing it to change direction slightly
Spectrum	A band of colours, as seen in rainbows, produced by separation of the components of light by their different degrees of refraction. The colours are: red, orange, yellow, green, blue, indigo and violet.
Rainbow	An arc of colours visible in the sky, caused by the refraction and dispersion of the sun's light by rain or other water droplets in the air

