Year 6 - Light and Sight - Why do shadows have the same shape as the objects that cast them?				
	<u>Key Vocabulary</u>	<u>Prior knowledge</u>	Sticky Knowledge	
Refraction	This is when light bends as it passes from one medium to another.	Recognised that they need light in order to see things and that dark is the absence of light Noticed that light is reflected from surfaces Recognised that shadows are formed when the light from a light source is blocked by a solid object and that light from the sun can be dangerous and that there are ways to protect their eyes Found patterns in the way that the size of shadows change. We need light to be able to see things. Light travelling that an object, it is reflected boarses off). If the reflectable gight have an object, it is reflected boarses off). If the reflectable gight have an object, it is reflected boarses off). If the reflectable gight have an object, it is reflected boarses off). If the reflectable gight have a reflected gight well. The light is reflected boarses off). If the reflectable gight have a reflected gight have a light an object, it is reflected boarses off). If the reflection is a straight line. When the light source is a continue travel of the path of light travelling light source, it will block trays that hit it, while the result of the reflection is states that the angle of an object, the shadow will appear on the object. The shadow will also be longer. When the shadow will also will also will also be longer. When the shadow will also be longer on the shadow will also be longer. Knowledge and Assessment Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes Recognise that light appears to travel in straight lines.	reflection states that the angle between the angle of incidence is equal to the angle of reflected from a surface, it obeys this law. Isaac Newton shone a light through a transparent prism, separating out light into the colours of the rainbow (red, orange, yellow, green, blue, indigo and violet) - the colours of the spectrum. All the	
Visible	Light that is visible to the human eye. It is made up of a colour spectrum.			
Prism	A prism is a solid 3D shape with flat sides. The two ends are an equal shape and size. A transparent prism separates out visible light into all the colours of the spectrum.			
Shadow	An area of darkness where light has been blocked.			
Light	A form of energy that travels in a wave from a source.			
Light source	An object that makes its own light.			
Reflection	Reflection is when light bounces off a surface, changing the direction of a ray of light.			
The law of reflection	The law states that the angle of the incident ray is equal to the angle of the reflected ray.			
Reflected ray	A ray of light that has bounced back after hitting a surface.		visible light. The spoon in this water looks as if it is bent. This	
Incident ray	A ray of light that hits a surface.		is because light bends when it moves from air to water. When light bends in this way, it is called refraction.	