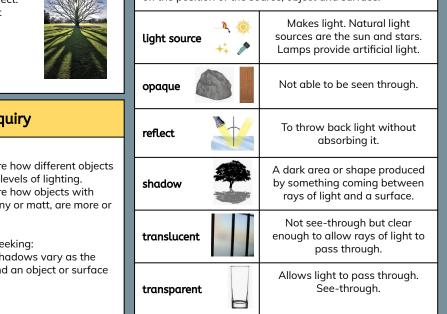


## Year 3 - Science - Unit 1 - Light



## Key Ideas and Vocabulary

We see objects because our eyes can sense light. Dark is the absence of light. We cannot see anything in complete s and to see if Objects are reflective. /e should eyes by Shadows anslucent e and w depends e.



Knowledge I already have	New Knowledge	the absence of light. We cannot see anything in a darkness. Some objects, like the sun, light bulbs of candles are sources of light. Objects are easier to there is more light. Some surfaces reflect light. Objects easier to see when there is less light if they are re The light from the sun can damage our eyes. We not look directly at the sun and can protect our ey wearing sunglasses or sun hats in bright light. Sh are formed on a surface when an opaque or tran- object is between a light source and the surface of blocks some of the light. The size of the shadow of on the position of the source, object and surface.	
In year 1: - I identified, named, drew and labelled the basic parts of the human body and was able to say which part of the body is associated with each sense.	<ul> <li>During this unit:</li> <li>I will recognise that light is needed in order to see things and that dark is the absence of light.</li> <li>I will notice that light is reflected from surfaces.</li> <li>I will recognise that light from the sun can be dangerous and that there are ways to protect my eyes.</li> <li>I will know that shadows are formed when the light from a light source is blocked by an opaque object.</li> </ul>		
- I described the simple physical properties of a variety of everyday materials for example plastic is see-through and waterproof.	- I will find patterns in the way that the size of shadows change.	light source ↔ ≁	Makes light. Natura sources are the sun a Lamps provide artific
		opaque	Not able to be seen t
Future Knowledge	Scientific Enquiry	reflect	To throw back light v absorbing it.
In year 6: - I will recognise that light appears to travel in straight lines and use this idea to explain that objects are seen because they give out or reflect light into the eye. - I will 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. - I will use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.	Comparative and fair tests: - I will make predictions and explore how different objects are more or less visible in different levels of lighting. - I will make predictions and explore how objects with different surfaces, for example, shiny or matt, are more or less visible. Comparative testing and pattern seeking: - Plan an enquiry to explore how shadows vary as the distance between a light source and an object or surface is changed.	shadow	A dark area or shape p by something coming rays of light and a si
		translucent	Not see-through bu enough to allow rays c pass through.
		transparent	Allows light to pass t See-through.