Our Lady's Catholic Primary	School - Knowledge	Organiser
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Science	Year Group 3	Topic Light & Shadow		
Vocabulary	Definition		Key facts	
Light Source	An object that produces its own light (e.g. sun, fire).	1	Light travels in a straight lines	
Reflection	When a light hits a surface and 'bounces' off.	2	Light travels faster than sound.	
Refraction	When light passes through a different object and its direction changes.		A light year is a unit of measurement for	
Opaque	An object which <b>does not allow</b> light to pass through it (e.g. wood).	3	distance. It is the distance light can travel in	
Turnel	An object which allows some light to pass through it. It may be possible to see some unclear images		a year.	
Translucent	through the object (e.g. tissue paper).		The size and shape of a shadow changes	
Transparent	An object which <b>allows</b> light to pass through it so that objects behind it can be easily seen (e.g.	4	based on the distance and the angle	
	glass).		compared to the light source.	
Spectrum	A range of colours caused when white light is refracted. A rainbow shows a spectrum of colours.	5	Darkness is caused by the absence of light.	
	An arch of colour caused by the refraction of light on water droplets in the air, usually rain (Red.	6	The moon does <b>not</b> emit its own light – it	
Rainbow	Orange, Yellow, Green, Blue, Indigo, Violet).	Ŭ	reflects the light of the sun.	
Prism	A solid 3D shape where two end faces are similar and parallel.		Ultraviolet (UV) light is a type of radiation	
Shadow	A dark area or shape caused by the blockage of light	7	which you can't see but can be dangerous.	
Shudow			UV rays can come from the sun.	





When white light passes through a glass prism, it is **refracted**. The light changes direction and is then dispersed (spread out) as it exits the **prism**. Depending on the shape of the prism and the angle of the light, we can often see the spectrum of colours.



## Light reflecting off a smooth surface.

