Key Scientific Skills Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings		Year 6 Light White light is made up of the colours of the rainbow. When light is refracted		Colours Absorption and reflection of light		Year 6 S Autumn Lig	
when appropriate Record data and result complexity using scient and labels, classification scatter graphs, bar and Use test results to male	Its of increasing ntific diagrams on keys, tables, d line graphs ke predictions to		through a transparent object, a rainbow is formed.	A while object reflects all colors of white light equally		Progression of Knowledge	Unit YEA Light Reco light and of lin Noti
Report and present fin enquiries, including co causal relationships an of and degree of trust and written forms such	set up further comparative and fair tests Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and			Shadows Opaque objects block the light rays so they can only travel around the edges of the object in straight lines. That is why a		Lesson Sequence 1. Explore how light travels	fro Rei the and pro Rei
other presentations Identify scientific evidence that has been used to support or refute ideas or arguments			shadow is the same shape as the object. The closer an object is to the light source, the bigger the shadow.		2. Explore reflection 3. Explore reflection and	form a ligh an o Find that chan	
light a form of energy		The further away the object is from the shadow, the smaller the shadow.		explain how it can be used to help see things			
light source	an object that provides its own light				3×1	4. Investigate how shadows can change	6.0
reflected	when light shines on a surface and bounces back					)	
variable	any one of the elements of an experiment which could be changed			How We See	1	<ol> <li>Investigate how we can show why shadows have the same shape as the object that cast them</li> </ol>	
angle	the space between 2 intersecting lines			<u> </u>		Cast ulem	
mirror	a surface that reflects a clear image it describes materials which do not allow light to travel through				6. Explore light phenomena	_	
				The second s		)	
transparent sunshade	it describes materials which allow all light to travel through a device giving protection from the sun			Light travels in straight lines. The light rays from a light source reflect off the object we are looking at. The			Refraction
rotate	to turn an object around a centre point			light travels in a straight line and e the eye through our pupil.			
optical	relating to the science of optics			Bird in Bush Primary School Science Knowledge Organiser 2023—2024			
spectrum	a band of several	colours		Knowledge Organiser adapted from the Developing Experts Science Scheme			

## Science n 2 Unit ight



## **Bending Light**





Light reflects off shiny, bright or light surfaces. That is why you can see your reflection when you look in a mirror.



## **Refraction**

Water and bent shiny surfaces cause light rays to be reflected at different angles, meaning the reflection of the image is distorted.