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## Lostwithiel Primary School

Year 6

Autumn 2

## Science Knowledge Organiser

Key vocabulary

Prior Learning to Reactive		
<ul> <li>Year 4</li> <li>Dark is the word used for the absence of light.</li> <li>Light is reflected off surfaces.</li> <li>Light from the sun can be dangerous and how they can protect their eyes.</li> <li>Shadows are formed when light is blocked by an opaque object. Shadows can change shape and size.</li> </ul>		
Scientific Skills		
Plan and carry out scientific enquiries to answer different questions.		
Use test results to make predictions to set up further tests.		
Investigate how materials can reflect and refract light as well as the opacity of materials.		
Use a range of scientific equipment to carry out investigations and take measurements.		
Record results using a variety of methods.		
Investigate moving a light source and how this affects the direction., size and position of shadows.		
Extend experience of light, through investigating a range of phenomena in- cluding rainbows, colours on soap bubbles, objects looking bent in water, dif- ferent shaped prisms and coloured filters. Identify scientific evidence which has been used to support or refute ideas (in the past and now)		

Light	The natural agent that stimulates sight and	
	makes things visible.	
Light source	Something that provides light (natural or	
	artificial).	
Filter	To pass through a device to remove unwanted	
	material (liquid, gas, light or sound)	
	A tube attached to a set of mirrors or prisms	
Periscope	through which you are able to see things that are	
	otherwise out of sight.	
Rainbow	An arch of colours in the sky caused by refrac-	
	tions and dispersion of the sun's light by rain or	
	water droplets in the atmosphere.	
Reflection	The throwing back by a body or surface of light	
	without absorbing it.	
Refraction	The bending of light as it passes from one	
	substance to another with the bending caused by	
	the different density between two substances.	
Shadow	A dark area of shape produced by a body coming	
	between rays of light and a surface.	
Spectrum	A band of colours, as seen in rainbows, produced	
	by separation of components of light by their	
	different degrees at refraction	

Linked documents: Class Overview, Science Whole School Progression document and Class Medium Term Planning.



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