

Year3				
<i>Topic</i>	<i>Prior Learning</i>	<i>Present learning</i>	<i>Misconceptions</i>	<i>Future learning</i>
<p>Light</p> <p><b>National Curriculum</b></p> <ul style="list-style-type: none"> <li>Recognise that they need light in order to see things, and that dark is the absence of light.</li> <li>Notice that light is reflected from surfaces.</li> <li>Recognise that light from the sun can be dangerous and that there are ways to protect their eyes.</li> <li>Recognise that shadows are formed when the light from a light source is blocked by an opaque object.</li> <li>Find patterns in the way that the size of shadows change.</li> </ul>	<ul style="list-style-type: none"> <li>Explore how things work. (Nursery – Light)</li> <li>Talk about the differences in materials and changes they notice. (Nursery – Light)</li> <li>Describe what they see, hear and feel whilst outside. (Reception – Light)</li> <li>Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. (Y1 - Animals, including humans)</li> <li>Describe the simple physical properties of a variety of everyday materials. (Y1 - Materials)</li> </ul>	<p><b>Knowledge and Understanding–</b></p> <ul style="list-style-type: none"> <li>-We need light to see things even shiny things</li> <li>-understand reflection</li> <li>-Light comes from a source</li> <li>-that light travels in straight line</li> <li>-how shadows are formed</li> <li>-how a reflection is created</li> <li>-what an eclipses is and name two different types</li> </ul> <p><b>Investigations:–</b></p> <ul style="list-style-type: none"> <li>plan a fair test to find patterns in the way that the size of shadows changes</li> <li>-What would be the best to make a safety jacket from?</li> <li>-how can we change the darkness, size and shape of a shadow</li> </ul> <p><b>Vocabulary:</b></p> <p>Ultraviolet light reflection light source reflect opaque transparent translucent</p>	<p>Some children may think:</p> <ul style="list-style-type: none"> <li>we can still see even where there is an absence of any light</li> <li>our eyes ‘get used to’ the dark</li> <li>the moon and reflective surfaces are light sources</li> <li>a transparent object is a light source</li> <li>shadows contain details of the object, such as facial features on their own shadow</li> <li>shadows result from objects giving off darkness.</li> </ul>	<ul style="list-style-type: none"> <li>Recognise that light appears to travel in straight lines. (Y6 - Light)</li> <li>Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. (Y6 - Light)</li> <li>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. (Y6 - Light)</li> <li>Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them. (Y6 - Light)</li> </ul>