

Appendix 7: Medium Term Plan - Example Science

Medium Term Plan Phase LKS2 Cycle 2 Term Autumn 2 Subject Science Topic Light Class Dove TLG Level 5 (FC 4;0-4;06 + P8)

<p>TALK:</p> <p>T1 – Demonstrate dual channelled attention (able to keep doing a task and listen at the same time)</p> <p>T2 – Answer questions relating to similarities and differences (Blanks Level 3)</p> <p>T3 – Ask lots of questions to find out more specific information, e.g. ‘who?’ ‘why?’</p>	<p>LEARN:</p> <p>L1 – Use trial and improvement to solve a problem (e.g. persevere with a 20-piece jigsaw)</p> <p>L2 – Begin to negotiate with others in a variety of situations</p>	<p>GROW:</p> <p>G1– Take into account clues from situations to help explain emotions of others (e.g. a child may be sad if their favourite toy is broken)</p> <p>G2 – Recognise and look after their own belongings</p>
<p>Anchor Words:</p>	<p>Goldilocks Words:</p>	<p>Step Up words:</p>
<p>Light See Dark Shiny Mirror Sun Sunglasses Hat Shadow Size Change</p>	<p>Source Reflect Smooth Rays Rough Beam Dangerous Glare Bright</p> <p>Damage Protect Direct Brim Straight Pattern Distance</p>	<p>Illuminate Visible Scatter Reverse Beneficial Visible spectrum Energy Travel Opaque</p> <p>Translucent Transparent Block UV light UV rating Pupil Retina Observe</p>
<p>Why are the children learning this?</p> <ul style="list-style-type: none"> • To understand how we see colours. • To have a sense of awe and wonder about the world and Physics <ul style="list-style-type: none"> • To understand how light travels • To understand the contrast between light and dark 		

<ul style="list-style-type: none"> To be able to apply scientific knowledge within real life contexts. To recognise how light is used in everyday life 		
Previous Learning	WALTs for the Topic (In progressive order)	Next Steps
<ul style="list-style-type: none"> C'ren are familiar with the vocabulary related to light and dark. C'ren have learnt about light sources in lesson 1. C'ren will have learnt about reflective surfaces in lesson 2. C'ren will have learned about light sources in lesson 1. C'ren will have learnt about light sources and reflections in lessons 1, 2 and 3. C'ren will have learnt about opaque, transparent and translucent objects in lesson 5. 	<p>Year 3</p> <p>WALT be able to recognise that we need light in order to see things and that dark is the absence of light by taking part in a 'feely bag' investigation</p> <p>WALT be able to notice that light is reflected from surfaces by choosing the most reflective material for a new book bag</p> <p>WALT be able to notice that light is reflected from surfaces by playing mirror games</p> <p>WALT recognise that light from the sun can be dangerous and that there are ways to protect our eyes by designing and advertising a pair of sunglasses or a sun hat</p> <p>WALT recognise that shadows are formed when the light from a light source is blocked by a solid object by investigating the best material for curtains for a baby's bedroom</p> <p>WALT be able to find patterns in the way that the size of shadows change by investigating what happens when you change the distance between the object and the light source</p>	<p>Year 6</p> <ul style="list-style-type: none"> recognise that light appears to travel in straight lines 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 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 use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them

Useful websites

Ideas to support planning.

<https://www.twinkl.co.uk/resource/tp2-s-122-planit-science-year-3-light-unit-pack>

Additional resources for planning on light.

<https://www.twinkl.co.uk/resource/tp2-s-043-planit-science-year-3-light-unit-additional-resources>

Peppa Pig episode about managing without light.

<https://www.youtube.com/watch?v=mBIPSF8Hciw>

Book list for books about light.

<https://bookroo.com/explore/books/topics/light>

The Dark by Lemony Snicket **NB: UKS2 are using this in Storytelling in Autumn 2**

<https://www.booktrust.org.uk/book/t/the-dark/>

Light Dome Visit in school.

<https://www.planmyschooltrip.co.uk/1213/Explorer-Dome-Light-Show.php>

Link with Storytelling

The Owl Who Was Afraid of the Dark by Jill Tomlinson

