

Leintwardine Endowed CE Primary School Learning Journey Itinerary

'Letting Our Light Shine'

SUBJECT : Science - Light	YEAR : A	TERM : Autumn 2	YEAR GROUPS : 5-6
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Key Question: Why can we see in colour?

Previous Knowledge – We would expect children to already be able to:
 Colours in art, primary colours
 Making predictions and how to carry out simple experiments
 Where does light come from
 How can we see, how the eye works and parts of the eye
 Isaac Newton, what did he discover?

END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are emerging because they can:	Most children will show that they have reached the expected level because they can:	Some children will have gone beyond the expected level and will show that they are exceeding because they can:
Can I with support explain how light travels? Can I with support how light is refracted? Can I explain how light is blocked? Can I describe what a shadow is?	Can I explain light travels in straight lines? Can I describe how light helps us to see? Can I explain refraction? Can I explain how prisms affect a ray of light? Can I identify the visible spectrum? Can I explain how light is blocked by an object? Can I predict what will happen? Can I recognise the work of Isaac Newton? Can I understand why we see colours? Can I understand why shadows change size?	Can I compare reflection and refraction? Can I make clear predictions and give reasons for these?

ASSESSMENT OPPORTUNITIES

ENRICHMENT OPPORTUNITIES	SUBJECT SPECIFIC VOCABULARY		CROSS-CURRICULAR LINKS
<p>Helping children to remember more</p> <p>Investigations using scientific equipment.</p> <p>Practical experiences – Creating dark spaces and figures to create shadow puppets</p> <p>Using mirrors to create reflections</p> <p>Using prisms to create and affect light rays</p>	absorb colour concave convex eye iris lens light mirror opaque optical	periscope pupil reflection reflective refraction shadow source spectrum translucent transparent	<p>Links that we can make to help children make sense of what we want them to know and be able to do.</p> <p>ART – colours that we see</p>