

Light – Year 6 Unit – Year B											
Retrieval vocab: Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous. New Vocab Straight lines, light rays, refraction, prism, angles of incidence, reflection, periscope, colour wheel, spectrum				Previous learnin Recognise that the light. (Y3 - Light) that light from the eyes. (Y3 - Light) source is blocked size of shadows of	Links with Vision and Values. Stimulate in every child a sense of curiosity and excitement about the world						
	Working scientifically/ enquiry focus	Curriculum Strand/ Focus	Small step	objective	Previous learning within the unit.	Lesson content	Outcome				
1	Identify Research	Light	straight lir sources to from light	at light travels in nes from light our eyes, and sources to nen our eyes.	N/A	How does light travel?	The children can: Demonstrate that light travels in a straight line by creating a model.				
2	Identify Research	Light		nd how mirrors nt and how they e objects.	Demonstrate that light travels in a straight line by creating a model.	How do mirrors work?	The children can: Explain how light is reflected. Measure the angles of incidence and reflection. Explain how the periscope allows us to see objects we would not usually be able to see.				
3	Comparative/ fair testing	Light	-	e how refraction ne direction in t travels.	As above Explain how light is reflected. Measure the angles of incidence and reflection. Explain how the periscope allows us to see objects we would not usually be able to see.	Why do objects look different in water?	The children can: Investigate the effects of refraction and understand the way refraction alters the direction of light.				



Madron Daniel Science Small Step Progression



4	Identify Research	Light	Explain how a prism changes a ray of light	As above Investigate the effects of refraction and understand the way refraction alters the direction of light.	How does a prism affect a ray of light? (Issac Newton) Colour wheels	The children can: Understand how a prism affects a ray of light and explain what this tells us about the visible spectrum. Describe what Isaac Newton discovered about light and colour.
5	Research	Light	Understand how the eye works and how light enables us to see colours.	As above Understand how a prism affects a ray of light and explain what this tells us about the visible spectrum. Describe what Issac Newton discovered about light and colour.	How does the eye work?	The children can: Explain how the eye works and how light enables us to see colour.
6	Identify	Light	Explain why shadows have the same shape as the object that casts them.	As above Explain how the eye works and how light enables us to see colour.	How do shadows change during the day?	The children can: Explain how a shadow is formed and explain why shadows are the same shape as the object that casts them.