Sonning Church of England Primary School

Learning Module:
Light – Year 6

Pupil outcomes as a result of this module

Knowledge	**National curriculum References**
• **I know** that light travels in a straight line. • I k**now** that white light is made up of a spectrum of light • I **know** that visible light is a region of the electro-magnetic spectrum. • I **know** that light travels in waves and that different colours have different wave lengths. • To **know** why the sky is blue! • To **know** some of the discoveries of Isaac Newton, when he lived and why he was so important.	10A 10B 10C 10D
Skills	
• I can m**easure** the angles of incidence and reflection. (taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate) • I can **investigate** the effects of refraction. (reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations) • I **can record** data and results of increasing complexity using scientific diagrams and labels, and tables • I can use **test** results to make predictions to set up further comparative and fair tests • I can **conduct** a scientific enquiry into how light behaves when reflected off different surfaces and how the direction of light can be changed through the angling of reflective surfaces.	1B 1E 1C 1D 1A
Understanding	
• I can **explain** how light is reflected and refracted. • I can **understand** the way refraction alters the direction of light. • I can understand how a prism affects a ray of light and explain what this tells us about the visible spectrum. • I can describe what Isaac Newton discovered about light and colour. • I can explain how a shadow is formed and why shadows are the same shape as the object that casts them.	10B 10D