















Colourful Semantics Planning Support

SCIENCE (Electricity, Light and Sound)		
	Objective	Supporting Colourful Semantics Coding
EYFS (3 & 4 year-olds)	No 'Electricity', 'Light' or 'Sound' objectives for 3 & 4 year-olds.	
EYFS (Reception)	No 'Electricity', 'Light' or 'Sound' objectives for Reception	
Year 1	No 'Electricity', 'Light' or 'Sound' objectives for Year 1.	
Year 2	No 'Electricity', 'Light' or 'Sound' objectives for Year 2.	
Year 3 Light	Notice that light is reflected from surfaces/ recognise that shadows are formed when the light from a light source is blocked by an opaque object ♣ find patterns in the way that the size of shadows change.	    
Year 4 Electricity Sound	<p>Identify common appliances that run on electricity ♣ construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers/ recognise some common conductors and insulators, and associate metals with being good conductors.</p> <p>Identify how sounds are made, associating some of them with something vibrating ♣ recognise that vibrations from sounds travel through a medium to the ear/ recognise that sounds get fainter as the distance from the sound source increases.</p>	<div>    </div> <div>      </div>

Year 5	No 'Electricity', 'Light' or 'Sound' objectives for Year 5.	
Year 6		
Electricity	Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit ♣ compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches ♣ use recognised symbols when representing a simple circuit in a diagram.	
Light	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.	