Class 2



	Light – Year 3 Unit – Year B											
Ne tra	<b>Retrieval vocab: N/A</b> <b>New Vocab:</b> Light, light source, dark, absence of light, transparent, translucent, opaque, shiny, matt, surface, shadow, reflect, mirror, sunlight, dangerous.			Previous learning None		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 st	ep objective	Previous learning within the unit.	Lesson content	Outcome					
1	Identify/classify	Light	Recognise that there needs to be light to see things and that darkness is the absence of light.		N/A	What is a light source?	The children can: Identify natural and man- made light sources; explain what darkness is and sort light sources according to criteria.					
2	Identify/classify	Light	Notice that light is reflected from surfaces.		Identify natural and man- made light sources; explain what darkness is and sort light sources according to criteria.	What is reflected light?	The children can: Identify reflective materials and understand how light is reflected. Design a poster to encourage younger children to wear reflective materials at night to keep them safe.					
3	Identify/classify	Light	Sun can that ther	e that light from the be dangerous and re are ways to rour eyes and skin Sun	As above identify reflective materials and understand how light is reflected. Design a poster to encourage younger children to wear reflective materials at night to keep them safe.	Is the Sun dangerous?	The children can: Explain why the Sun can be harmful to our eyes if we look at it directly. Identify ways in which we can protect ourselves from sun damage.					



## Madron Daniel Science Small Step Progression



4	Comparative testing	Light	Recognise that shadows are formed when light from a light source is blocked by an opaque object. Know that shadows take on the shape of an opaque object. I can predict where a shadow will form in relation to an opaque object and a light source.	As above Explain why the Sun can be harmful to our eyes if we look at it directly. Identify ways in which we can protect ourselves from sun damage.	What is a shadow?	The children can: Predict which materials make the best/worst shadows using the knowledge gained through their own exploration.
5	Pattern seeking	Light	Find patterns in the way that the length of shadows change.	As above Predict which materials make the best/worst shadows using the knowledge gained through their own exploration.	Does moving the light source above the object make the object's shadow longer?	The children can: Discuss the relationship between the height/ angle of the light source and the length of the shadow. Use the results from their investigation to explain how they know.
6	Identify/classify	Light	Know that light is reflected from surfaces (mirrors).	As above Discuss the relationship between the height/angle of the light source and the length of the shadow. Use the results from their investigation to explain how they know.	How do mirrors work?	The children can: Explain how mirrors reflect light. Understand of how light behaves when it is reflected.