




Light Year 3

<p>Science Concepts</p>	<p>Nature Knowing about the natural world</p>  <p>Nature</p>	<p>Phenomenon Observing facts and events</p>  <p>Phenomenon</p>	<p>The Real World Knowing about scientists and science in our everyday lives</p>  <p>The Real World</p>
<p>National Curriculum</p>	<ul style="list-style-type: none"> Recognise that they need light in order to see things and that dark is the absence of light Notice that light is reflected from surfaces Recognise that light from the sun can be dangerous and that there are ways to protect their eyes 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 		<ul style="list-style-type: none"> Observing and measuring Using equipment Identifying and classifying
<p>Common Misconceptions</p>	<p>Some children may think:</p> <ul style="list-style-type: none"> We can still see even when there is an absence of any light Our eyes 'get used to' the dark The moon and reflective surfaces are light sources A transparent object is a light source Shadows contain details of the object, such as facial features on their own shadow Shadows result from objects giving off darkness 		

Lesson	Learning Intention	Lesson Plan
1. Light and Dark	<ul style="list-style-type: none"> Recognise that we need light in order to see things and that dark is the absence of light 	WALT recognise how light helps us see <ul style="list-style-type: none"> Prior learning: children have learnt about nocturnal animals, difference between night and day, jobs done in the night, light sources Vocabulary: light, source, dark, reflect, see, illuminate, visible
2. Reflective Surfaces	<ul style="list-style-type: none"> Notice that light is reflected from surfaces 	WALT investigate which surfaces reflect light <ul style="list-style-type: none"> Prior Learning: Children will have learnt about light sources in lesson 1 Vocabulary: light, source, dark, reflect, see, illuminate, visible.
3. Marvellous Mirrors	<ul style="list-style-type: none"> Notice that light is reflected from surfaces 	WALT explain how mirrors work <ul style="list-style-type: none"> Prior Learning: children have learnt about reflective surfaces in lesson 2 Vocabulary: reflect, mirror light, smooth, shine, rays, rough, scatter, reverse, beam
4. Sun Safety	<ul style="list-style-type: none"> Recognise that light from the sun can be dangerous and that there are ways to protect our eyes 	WALT identify the dangers of the sun <ul style="list-style-type: none"> Prior Learning: children will have learnt about light sources in lesson 1 Vocabulary: light, sun, beneficial, dangerous, glare, bright, damage, UV light, UV rating, visible spectrum, pupil, retina, protect, direct, sunglasses, hat, brim
5. Making Shadows	<ul style="list-style-type: none"> Recognise that shadows are formed when the light from a light source is blocked by a solid object 	WALT Investigate which materials block light to form shadows <ul style="list-style-type: none"> Prior learning: children have learnt about light sources in lesson 1. In Year 1, children learnt how shadows are formed. Vocabulary: light, energy, beam, ray, travel, straight, opaque, translucent, transparent, block, shadow
6. Changing Shadows	<ul style="list-style-type: none"> Find patterns in the way that the size of shadows change 	WALT find patterns when investigating how shadows change size Prior Learning: In year 1, children learnt how shadows are formed. Children will have learnt about opaque, transparent and translucent objects in lesson 5. <ul style="list-style-type: none"> Vocabulary: shadow, light, source, observe, pattern, opaque, size, distance, change