

Long Term Planning - Science						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<b>Nursery</b>	<b>Our Bodies</b>	<b>Colour and Sparkle Different lights</b>	<b>Winter Snow/Ice</b>	<b>Growing Planting seeds</b>	<b>Farm</b>	<b>Minibeasts</b>
	Body parts	Light sources	Weather - Melting	Plants	Living things - Animals	Life cycles/habitats
<b>Places</b>				<i>Bantock Park</i>	<i>Kingswood - Ponds</i>	<i>School grounds</i>
<b>People</b>	School Nurse					
<b>Enquiry Question</b>						
<b>Reception</b>	<b>Body Parts</b>	<b>Colour and light</b>	<b>Healthy Living</b>	<b>Habitats</b>	<b>Growth</b>	<b>Exploring materials for purposes</b>
	Living things - humans		Living things – humans Hygiene	Living things - animals	Living Things – plants and animals	Material Properties
<b>Places</b>				<i>Bantock Park</i>	<i>Allotment</i>	
<b>People</b>			Nurse/Doctor			
<b>Enquiry Question</b>	<i>What sense do you use to .....? (Comparative and fair testing)</i>	<i>What colours make the best fireworks? (Comparative and fair testing)</i>	<i>Which foods are healthy? (Sorting and classifying) What would happen if we didn't eat healthy food? (Research, Observing over time)</i>	<i>What do bears like to eat? (Research) Where does a (animal) live? (Research, Sorting and classifying)</i>	<i>Where does a plant grow the best? (Comparative and fair testing, Observing over time)</i>	<i>What is the best material to make a waterproof costume?</i>
<b>Year 1</b>	<b>Seasonal Change</b>	<b>Plants</b>	<b>Everyday Materials</b>	<b>Seasonal Change Plants</b>	<b>Animals, including Humans</b>	<b>Animals, including Humans Seasonal Change</b>
<b>Scientific Knowledge</b>	Autumn	Naming & Structure: Trees in evergreen and deciduous	Naming, Properties, Comparing	Spring Naming & Structure: Flowering/common/wild plants	Naming, Structure, Animals only	Naming, Structure, senses, Humans  Summer
<b>Places</b>	<i>Local Area</i>					<i>Safari Park</i>
<b>People</b>	Naturalist - Charles Darwin					
<b>Enquiry Question</b>	<i>How could we sort the following plants? (Identifying and classifying)</i>	<i>How do plants change in the winter? (Observing over time)  How does the temperature change throughout the year? (Observing over time, research)</i>	<i>What is the best material for an umbrella? (Comparative and fair testing)</i>	<i>What is the difference between day lengths throughout the year? (Observing over time)</i>	<i>How could we sort the following animals? (Identifying and classifying)  What do animals eat? (Research, pattern seeking)</i>	<i>What is the purpose of the following body parts? (Research)</i>
<b>Year 2</b>	<b>Living Things and Habitats</b>	<b>Animals, including Humans</b>	<b>Uses of Everyday Materials</b>	<b>Uses of Everyday Materials</b>	<b>Plants (Weekly)</b>	<b>Plants (Weekly)</b>
	Living, Non Living, Micro-Habitats, Food Chain	Offspring, Needs, Exercise, Diet	Compare, Suitability, Changes Fireproof	Compare, Suitability, Changes Waterproof	Growth Life Cycles Potato/Bean	Growth Life Cycles Potato/Bean
<b>Places</b>	Coastal Environment <i>Kingswood Visit</i>				<i>Allotment</i>	<i>Allotment</i>
<b>People</b>				John Dunlop, Charles Macintosh, John McAdam		
<b>Enquiry Question</b>	<i>How can we sort the following living things? (Identifying and classifying)</i>	<i>What do we need to stay healthy? (Research)</i>	<i>Which material is the best to mop up spillages? (Comparative and fair testing)  How can we sort the following materials? (Identifying and classifying)</i>	<i>Which materials can be changed and how? (Comparative and fair testing)</i>	<i>What does a plant need to survive? (Research, observing over time)  In what conditions does a plant grow best? (Comparative and fair testing, observing over time, pattern seeking)</i>	<i>How does a plant change over time? (Observing over time)  What is the purpose of the different parts of a plant? (Research)</i>
<b>Year 3</b>	<b>Forces and Magnets</b>	<b>Rocks</b>	<b>Animals including Humans</b>	<b>Animals including Humans</b>	<b>Plants</b>	<b>Light</b>
	Comparing, Everyday Use <b>LEGO LINK – UNIT 1 PULLING</b>	Fossils, Soil	Skeletons and Muscles	Nutrition Balanced Diet Compare	Parts, Life Cycle, Wheat	Dark, Reflection, Source Shadows
<b>Places</b>		River				

<b>People</b>				Roman Food		Inventor – Thomas Edison
<b>Enquiry Question</b>	<i>On which surface will the car travel the furthest? (Comparative and fair testing)</i>	<i>How could you classify these rocks? (Identifying and classifying)</i>	<i>What would happen if humans did not have skeletons and muscles? (Research)</i>  <i>What do animals eat? (Research)</i>	<i>How could you classify the following foods? (Identifying and classifying)</i>	<i>How do the conditions affect plant growth? (Observing over time, comparative and fair testing)</i>	<i>What happens to a shadow throughout the day? (Observing over time)</i>  <i>What happens to the shadow when the light gets closer? (Pattern seeking)</i>
<b>Year 4</b>	<b>Animals, including Humans</b>	<b>Sound (Autumn 1)</b>	<b>Living Things and Habitats</b>	<b>Living Things and Habitats</b>	<b>Electricity</b>	<b>States of Matter</b>
	Teeth, Digestion, Food Chain Cats, Tigers, Sabre Tooth	Vibrations, Travel, Pitch	Classification Environmental Change Reptiles, birds	Classification Environmental Change Mammals, fish	Circuits Conductors, Insulators	Changes, Water Cycle
<b>Places</b>			Africa	North Pole	<i>Think Tank</i>	
<b>People</b>				<i>Animal Man</i>		
<b>Enquiry Question</b>	<i>Which liquid decays teeth the quickest? (Observing over time, Comparative and fair testing)</i>  <i>Why do we have different types of teeth? (Research)</i>	<i>Which material is the most sound proof? (Comparative and fair testing)</i>  <i>How does size and thickness affect the amount of sound? (Pattern seeking)</i>	<i>How could you classify the following organisms? (Identifying and classifying)</i>	<i>How has a polar bears habitat changed over time? (Research)</i>	<i>Are all metals conductors? (Patter seeking, comparative and fair testing)</i>  <i>How does the amount of cells affect the brightness of a bulb? (Comparative and fair testing)</i>	<i>In which environment does water evaporate in the quickest time? (Observing over time, comparative and fair testing)</i>
<b>Year 5</b>	<b>Forces</b>	<b>Properties and Changes in Materials</b>	<b>Living Things and Habitats (Spring 2)</b>	<b>Properties and Changes in Materials</b>	<b>Earth and Space</b>	<b>Animals, including Humans</b>
	Gravity, Resistance, Mechanisms <b>LEGO LINK – UNIT 2 SPEED</b>	Properties Testing materials	Life Cycles Cocoa Bean	Reversible/Irreversible changes Solutions Separating mixtures New materials	Planets Day and Night	Growth & Development Puberty
<b>Places</b>			Mexico Rainforest		<i>Space Dome</i>	
<b>People</b>	Scientists - Galileo Isaac Newton	Chemist - Ruth Benerito	Naturalist – Jane Goodall Animal Behaviourist – David Attenborough	Chemist - Spencer Silver	Pythagoras	
<b>Enquiry Question</b>	<i>Which parachute falls the slowest? (Comparative and fair testing)</i>  <i>Does shape have an impact on water resistance? (Comparative and fair testing)</i>	<i>Which material is the best electrical conductor? (Comparative and fair testing)</i>  <i>Which material is the best thermal insulator? (Observing over time)</i>	<i>How could we classify the following animals and why? (Identifying and classifying)</i>  <i>How are the life cycles of these animals different? (Research)</i>	<i>What new material is created when .....? (Research)</i>  <i>Which materials will dissolve in water? (Comparative and fair testing)</i>	<i>Does the amount of day light vary in different countries and if so, why? (Research, pattern seeking)</i>	<i>How do animals reproduce and grow? (Research, observing over time)</i>  <i>How does a human develop over time? (Research, observing over time)</i>
<b>Year 6</b>	<b>Electricity</b>	<b>Animals and Humans</b>	<b>Living Things and Habitats</b>	<b>Light</b>	<b>Living Things and Habitats</b>	<b>Evolution and Inheritance (Summer 1)</b>
	Circuits, Variation, Voltage, Components	Circulation , Diet, Nutrition, Drugs	Woodland plants	Travel, colour	Coasts	Fossils Adaptation Growth & Development Puberty
<b>Places</b>			Woodland, Forest		Coasts	<i>Wales</i>
<b>People</b>			Scientist – Carl Linnaeus			Palaeontologist – Mary Anning Evolutionist – Charles Darwin, Alfred Wallace
<b>Enquiry Question</b>	<i>Does the voltage of a cell affect the brightness of a bulb or the volume of a buzzer? (Comparative and fair testing)</i>	<i>What happens to our heart rate during and after exercise? (Observing over time, research, pattern seeking)</i>	<i>How could we classify the following animals? (Identifying and classifying)</i>	<i>Does light travel the same in air and water? (Research, Comparative and fair testing)</i>  <i>Are all shadows the same shape as the object that cast them?</i>	<i>What does a cliff and a grain of sand have in common? (Research, pattern seeking)</i>	<i>How have finches adapted in suite their environment? (Research, pattern seeking over time)</i>

				<i>(Researching)</i>		<i>How can offspring vary from their parents? (Research)</i>
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