

Banks Road Primary School Science Progression Document



Topic	Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals, Including Humans, and Health	<ul style="list-style-type: none"> Understand the key features of the life cycle of a plant and an animal. Use all their senses in hands-on exploration of natural materials. Begin to make sense of their own life-story and family's history 	<ul style="list-style-type: none"> Recognise some environments that are different from the one in which they live. Talk about members of their immediate family and community . Name and describe people who are familiar to them. 	Animals, Including Humans <ul style="list-style-type: none"> Identify and name common animals including fish, amphibians, reptiles, birds, and mammals, carnivores, omnivores and herbivores. Compare common structures. Identify, name, draw, and label the human body parts and senses. 	Animals, Including Humans <ul style="list-style-type: none"> Understand life cycles and differences in offspring and adults. Understand basic needs of animals and humans for survival. Importance of a healthy lifestyle 	Animals, Including Humans <ul style="list-style-type: none"> Understand nutrition, transportation of water and nutrients in the body, and the skeletal and muscular system in humans and other animals. 	Animals, Including Humans <ul style="list-style-type: none"> Digestive system, teeth, and food chains. 	Animals, Including Humans <ul style="list-style-type: none"> Changes in humans from birth to old age. 	Animals, Including Humans <ul style="list-style-type: none"> Circulatory system, impact of diet, exercise and lifestyle on health.
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Living Things and Their Habitats	<ul style="list-style-type: none"> Use all their senses in hands-on exploration of natural materials Explore collections of materials with similar and/or different properties Begin to understand the need to respect and care for the natural 	<ul style="list-style-type: none"> Draw information from a simple map. Explore the natural world around them. Describe what they see, hear and feel whilst outside. Recognise some environments that are different to the 	→	Living Things and Their Habitats <ul style="list-style-type: none"> Distinguish between living, dead, and non-living things. Understand how habitats and microhabitats meet the needs of organisms. Understand simple food chains. 	→	Living Things and Their Habitats <ul style="list-style-type: none"> Classification of living things in local and wider environment Describe how environmental change can sometimes pose dangers to living things. 	Living Things and Their Habitats <ul style="list-style-type: none"> Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. Describe the life process of reproduction in some plants and animals. 	Living Things and Their Habitats <ul style="list-style-type: none"> Classify living things including microorganisms Understand reasons for classification Understand fossils and evolution Know offspring variation and environmental adaptation.

Banks Road Primary School Science Progression Document



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Plants	<ul style="list-style-type: none"> Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environment and all living things. Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. 	<ul style="list-style-type: none"> Describe what they see, hear and feel whilst outside Explore the natural world around them. 	Plants <ul style="list-style-type: none"> Identify and name a variety of common plants, including garden plants, wild plants and trees, and those classified as deciduous and evergreen. Identify the basic structure of plants. 	Plants <ul style="list-style-type: none"> Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. 	Plants <ul style="list-style-type: none"> Understand the part that flowers play in the life cycle of flowering plants, including pollination, seed formation, and seed dispersal. 	→	→	→
Materials and Their Properties	<ul style="list-style-type: none"> Talk about the differences between materials and changes they notice 	<ul style="list-style-type: none"> Explore the natural world around them. Describe what they see, hear 	Everyday materials <ul style="list-style-type: none"> Distinguish between an object and the material from 	Uses of everyday materials <ul style="list-style-type: none"> Understand the suitability of a material for a particular job. 	→	States of matter <ul style="list-style-type: none"> Compare and group materials based on states, evaporation, 	Properties and changes of materials <ul style="list-style-type: none"> Testing material properties, 	→

Banks Road Primary School Science Progression Document



	<ul style="list-style-type: none"> Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties. Explore natural materials, indoors and outside 	and feel whilst outside.	which it is made <ul style="list-style-type: none"> Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Compare and group materials based on physical properties. 	<ul style="list-style-type: none"> Understand how shapes can be changed by squashing, bending, twisting, and stretching. 		condensation, freezing and melting (changes of state).	solubility, reversible and irreversible changes. <ul style="list-style-type: none"> Rationale for uses of materials 	
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Forces	<ul style="list-style-type: none"> Explore and talk about different forces they can feel. Explore how things work. Talk about the differences between materials and changes they notice 	<ul style="list-style-type: none"> Explore the natural world around them. Describe what they see, hear and feel whilst outside. 	→	→	Forces and magnets <ul style="list-style-type: none"> Explore and compare how forces, including magnetism, affect the movement of objects across different surfaces. Understand that magnets have two poles, can act at a distance, and attract certain materials, and predict the interactions between magnets 	→	Forces <ul style="list-style-type: none"> Understand the effects of gravity, air resistance, water resistance and friction. Understand that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect. 	→

Banks Road Primary School Science Progression Document



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Electricity	<ul style="list-style-type: none"> Explore and respond to different natural phenomena in their setting and on trips. Explore how things work. Talk about the differences in materials and changes they notice. 	<ul style="list-style-type: none"> Explore the natural world around them. Describe what they see, hear and feel whilst outside. 	→	→	→	Electricity <ul style="list-style-type: none"> Learn about simple electrical circuits and conductors and insulators. 	→	Electricity <ul style="list-style-type: none"> Understand how number and voltage of cells affects components. Use symbols to represent circuit diagrams.
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Light	<ul style="list-style-type: none"> Explore and respond to different natural phenomena in their setting and on trips. Explore how things work. Talk about the differences in materials and changes they notice. 	<ul style="list-style-type: none"> Explore the natural world around them. Describe what they see, hear and feel whilst outside. 	→	→	Light <ul style="list-style-type: none"> Understand that we see things because light reflects off surfaces. Understand the danger of sunlight and how to protect eyes. 	→	→	Light <ul style="list-style-type: none"> Understand that light travels in straight lines, allowing us to see objects either because they emit or reflect light into our eyes. Explain that this principle causes shadows to take the shape of the objects casting them.
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Sound	<ul style="list-style-type: none"> Explore and respond to different natural phenomena in 	<ul style="list-style-type: none"> Explore the natural world around them. 	→	→	→	Sound <ul style="list-style-type: none"> identify how sounds are made, associating 	→	→

Banks Road Primary School Science Progression Document



	<p>their setting and on trips.</p> <ul style="list-style-type: none"> • Explore how things work. • Talk about the differences in materials and changes they notice. 	Describe what they see, hear and feel whilst outside.				<p>some of them with something vibrating</p> <ul style="list-style-type: none"> • recognise that vibrations from sounds travel through a medium to the ear • find patterns between the pitch of a sound and features of the object that produced it • find patterns between the volume of a sound and the strength of the vibrations that produced it <p>recognise that sounds get fainter as the distance from the sound source increases</p>		
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Space and Seasons	<ul style="list-style-type: none"> • Explore and respond to different natural phenomena in their setting and on trips. 	<ul style="list-style-type: none"> • Understand the effect of changing seasons on the natural world around them. • Explore the natural world around them. • Describe what they see, hear 	<ul style="list-style-type: none"> • observe changes across the four seasons • observe and describe weather associated with the seasons and how day length varies. 	→	→	→	<p>Earth and Space</p> <ul style="list-style-type: none"> • describe the movement of the Earth and other planets relative to the sun in the solar system • describe the movement of the Moon 	→

Banks Road Primary School Science Progression Document



		and feel whilst outside.					relative to the Earth <ul style="list-style-type: none">• describe the Sun, Earth and Moon as approximately spherical bodies• use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky	
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