

Baines Endowed Curriculum Map - Science

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception						
Year 1	<u>Seasonal changes</u> Children learn about the 4 seasons and the weather associated with each.	<u>Everyday Materials</u> Identifying the difference between objects and materials, children explore their surroundings to find examples of each.	<u>Sensitive Bodies</u> Familiarising themselves with the basic parts of the human body, children investigate their senses through stimulating experiences that highlight how we interact with the world around us.	<u>Comparing animals</u> Studying both local and global animals, children recognise common features and use this information to make comparisons and begin to classify animals.	<u>Introduction to plants</u> Identifying the key features of a plant, children describe important structures and make comparisons between different plants.	<u>Making connections</u> Making connections between key concepts and skills.
Year 2	<u>Habitats</u> Considering that life processes that all living things have in common, pupils classify objects into alive or has never been alive	<u>Microhabitats</u> Children discover that microhabitats provide what minibeasts need to survive and carry out a survey of where they live on the school grounds.	<u>Uses of everyday materials</u> Children begin to explain why materials are used in certain contexts.	<u>Life cycles and health</u> Studying the life cycles of various animals, children learn what animals need to survive and how they change over time.	<u>Plant growth</u> Using their prior knowledge of important plant structures, children explain which factors are needed for successful growth and compare how those needs vary across different plants.	<u>Making connections</u> Making connections between key concepts and skills.

Year 3	<u>Movement and nutrition</u> Studying the human skeleton, children identify key bones and compare them to other animals explaining the role within the body.	<u>Forces and magnets</u> Investigating the movement of vehicles on different surfaces, children learn about the impact of friction and compare uses and drawbacks.	<u>Rocks and soil</u> Studying rocks and their properties, children learn that rock properties support classification and tell us about how rocks were formed.	<u>Light and shadows</u> Identifying examples of luminous objects, children learn about how light travels around us and how that enables us to see.	<u>Plant reproduction</u> Building on their prior knowledge of plant structures, children describe the functions of named parts and use evidence to explain their significance in plant development.	<u>Making connections</u> Making connections between key concepts and skills.
Year 4	<u>Digestion and food</u> Using models, children describe the function of key organs in the digestive system.	<u>Electricity and circuits</u> Exploring appliances that use electricity in their setting, children learn how to work with electricity safely and build circuits.	<u>States of matter</u> Investigating the properties of solids, liquids and gases, children learn about the different states of matter.	<u>Sound and vibrations</u> Exploring different ways of producing sounds, children learn about the relationship between vibrations and what they hear.	<u>Classification and changing habitats</u> Identifying different ways living things can be grouped, children make classification keys to explore which grouping methods are most effective.	<u>Making connections</u> Making connections between key concepts and skills.
Year 5	<u>Mixtures and separation</u> Pupils explore different types of mixtures and the different methods that can be used to separate them.	<u>Properties and changes</u> Broadening their experience of the properties of materials, children investigate how certain properties influence the uses of materials	<u>Earth and space</u> Exploring some of the key celestial bodies in our solar system, children learn the names and compare their movements.	<u>Life cycles and reproduction</u> Studying different life cycles of animals, children learn the significance of reproduction for the survival of a species.	<u>Imbalanced forces</u> Building on the knowledge of contact forces, children explore gravity, air resistance and water resistance in more depth and compare the effect of these forces being imbalanced.	<u>Human timeline/Making connections</u> Studying human development and changes, children identify key stages and consider the data which may help determine if a child is growing normally.

Year 6	<u>Classifying big and small</u> Children broaden their knowledge of how vertebrates, invertebrates, plants and micro organisms are grouped using shared characteristics.	<u>Light and reflection</u> Proving that light travels in straight lines, children use this information to explain observations of reflection and shadows.	<u>Evolution and inheritance</u> Studying patterns through families, children learn about the characteristics that are inherited from parents and those that are environmental.	<u>Circuits, batteries and switches</u> Using their prior knowledge of electrical circuits, children learn to draw conventional circuit diagrams and use models to explain current and voltage.	<u>Circulation and exercise</u> Studying the human circulatory system, children learn about the role of the heart, blood and blood vessels and use models to demonstrate their function.	<u>Making connections</u> Making connections between key concepts and skills.
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Materials – beige

Animals including humans – green

Plants – yellow

Living things and their habitats – blue

Forces, Earth and space – grey

Energy - red