

Curriculum Overview: Science

In the Early Years Foundation Stage (EYFS)- science is not taught as a separate subject, but is embedded within the **Understanding the World** area of learning.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Nursery Cycle A	Exploring Autumn Explore how to weather and some plants and trees change with the seasons. Observe animals in a local, woodland habitat and begin to name their body parts. Exploring floating and sinking.	Once Upon a Time (This section is currently blank)	Starry Night Explore light and dark. Learn about and identify nocturnal animals. Make simple comparisons between materials.	Dangerous Dinosaurs Discover living things, including dinosaurs that roamed Earth millions of years ago. Talk about what animals eat. Observe the life-cycle of an animal.	Sunshine and Flowers Use their senses to find out about the world around them. Begin to observe and talk about living things in the local environment. Care for growing seeds and plants.	Big Wide World Explore how living things and the weather differs in different places in the world. Show care for the environment.
Nursery Cycle B	Me and My Community Begin to recognise, observe and discuss how humans change and grow from when they are babies.	Sparkle and Shine Explore collections of materials with similar and/or different properties.	Winter Wonderland Explore how the weather changes in the winter. Talk about some of the things that they have observed using simple scientific vocabulary; i.e. freezing and melting.	Puddles and Rainbows Observe the daily weather and explore and discuss any changes they see. Explore and talk about materials that are waterproof.	Shadows and Reflections Create shadows outdoors with different objects and their own bodies. Explore and sort everyday items, with support, into groups of the same material.	Splash! Explore, play with and talk about objects that float and sink and describe different forces that they can feel.

			Name a variety of animals that live in cold places around the world.	Care for growing seeds and plants.		
Reception	Let's Explore Explore the natural world around them, using their senses. Observe, record and talk about materials and their textures. Observe and describe living things and their habitats within the school grounds.	Marvellous Machines Identify products that use electricity to make them work. Identify that the properties of materials differ. Explore and sort magnetic and non-magnetic materials through play and exploration.	Long Ago Explore human growth; recognising that people grow from babies to adults. Understand the effect of changing seasons on the natural world and begin to describe simply how the weather changes with the seasons. Name and sort everyday ideas into groups of the same material.	Ready, Steady, Grow Observe and describe living things and their habitats within the local environment; including, naming and describing the basic features of plants and trees. Describe some ways that plants or animals should be cared for in order for them to survive. Match animals to their young.	Animal Safari Identify common features of different groups of animals. Describe some ways that plants or animals should be cared for in order for them to survive. Match animals to their young and to the foods they eat.	On the Beach Name animals that live in different habitats; including those that live near the seashore. Explore the features and characteristics of a variety of animals, including fish, birds, mammals and talk about the foods they eat.
Year 1	Everyday Materials Objects are made from materials; identify a range of everyday materials; investigate the properties of materials; begin to understand that the material's properties define its use.		Animals, including Humans Humans are mammals; identify and name body parts; senses and associated body parts. Identify and describe the common structures of animals		Plant Parts Wild and garden plants; explore local environment; identify and describe the basic parts of plants; observe changes over time.	Animals Fish, amphibians, reptiles, birds, mammals and invertebrates; diets; how animals should be cared for
	Seasonal Changes Seasons; seasonal changes; typical seasonal weather and events. Measuring the weather; science of day and night; recognise seasons have varying day lengths in the UK.					

Year 2	Human Survival Human life cycle; needs for health and survival; healthy lifestyle; hygiene routines.	Habitats Exploring habitats; living and non-living things; plants and animals in a habitat; animal shelter and food; food chains; animal adaptations; plant adaptations	Uses of Materials Use of everyday materials; how materials properties are suitable or unsuitable for specific purposes; explore how materials can be changed.	Plant Survival Growth of plants from seeds and bulbs; observe the growth of plants first-hand; recording changes over time; identifying what plants need to grow and stay healthy.	Animal Survival Growth in animals by exploring life cycles of some familiar animals; build on learning about the survival to humans by identifying the basic needs of animals for survival, including: food, water, air and shelter.
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