Progression of science								
Subject content	Content Development matters: Understanding the world (the natural world) Explore the natural world around them. Describe what they see, hear and feel whilst outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them. ELG: The Natural World - Explore the natural world around them, making observand drawing pictures of animals and plants. Know some similarities and different between the natural world around them and contrasting environments, drawing of experiences and what has been read in class. Understand some important proceer and changes in the natural world around them, including the seasons and change states of matter. Year 1 Pupils should be taught to: Plants • identify and name a variety of common plants, including garden plants, wild plants trees, and those classified as deciduous and evergreen • identify and name a variety of common animals including fish, amphibians, reptile and mammals. • identify and name a variety of common animals including fish, amphibians, reptile and mammals. • identify and name a variety of common animals that are carnivores, herbivores ar omnivores. • describe and compare the structure of a variety of common animals (fish, amphib reptiles, birds, mammals, including pets). • identify and name a variety of everyday materials, including wood, plastic, glass, r water and max. • identify and name a variety of everyday materials. <tr< td=""><td colspan="2"> Teal 21 upins and their habitats explore and compare the differences between things that are living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other identify and name a variety of plants and animals in their habitats, including micro-habitats describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. Plants 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. Animals, including humans notice that animals, including humans, have offspring which grow into adults find out addescribe the basic needs of animals, including humans, for survival (water, food and air) describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Use of everyday materials identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses find out why the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. KS1 Working Scientifically: asking simple questions and recognising that they can be answered in different ways observing closely, using simple equipment performing simple tests identify and classifying using their observations and ideas to suggest answers to questions gathering and recording data to help in answering questions. </td></tr<>			 Teal 21 upins and their habitats explore and compare the differences between things that are living, dead, and things that have never been alive identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other identify and name a variety of plants and animals in their habitats, including micro-habitats describe how animals obtain their food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. 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	observe and	describe weather associated with the seasons and how day le	ngth varies.					
Skills	9	Reception	Year 1		Year 2			
Questioning		questions.	questions using sentence stems such as how and why with support.		own questions using scientific language.			
Testing		To experience different ways of finding out	To begin to recognise questions can be answered in different ways.		To respond to suggestions about how to find out and communicate this to others.			
		To make a suggestion about what to do. To experiment with given apparatus. Carry out a given task.	To make suggestions about what to do and what to look for. Carry out simple tests supported/scaffolded by adults. To predict what might happen.		To recognise the different ways in which they might answer scientific questions. To plan simply what to do, what observations or			
		To make a simple statement referring to something they have already encountered.			measurements to take. Recognise some hazards.			

			To sometimes predict the outcome of an investigation.
Observing	Describe what they see, hear and feel whilst outside.	With help, to observe closely using simple equipment. To observe changes over time with adult modelling.	To observe closely using simple equipment. Observe changes over time.
Gathering and recording data	To observe changes in something.	To talk about results in everyday terms (e.g. this one is bigger).	To measure using standard units.
	To know that information can be gathered from books.	With support, to use simple equipment to gather data.	To learn how to use simple equipment (e.g. hand lenses, egg timer) to gather data.
	To observe teacher putting results in a table.	With support, to answer questions by using secondary sources of information.	To use secondary sources of information to answer questions.
	teacher. E.g. cut and stick objects, tick or draw	To record results through drawing and or a simple table prepared by the teacher.	To present results in a simple table with headings initially provided by the teacher.
		To draw on a pictogram or other chart prepared by the teacher and create class bar charts.	To use pictograms to display results, draw bar charts with help.
Identifying and classifying	To identify what is the same and what is different. To describe or show what they did and what	To make simple comparisons and groupings that relate to differences and similarities between objects, materials and living things.	To use simple features to compare objects, materials and living things and decide how to sort and group them.
	happened.	To draw or simply state what happened.	To compare results, look for similarities and differences. With guidance, begin to notice patterns and relationships
		To begin to group and classify.	To group and classify in different ways
Suggesting answers to questions	To talk about what happened.	To say what their observations show. Draw simple conclusions and explain what they did.	To use their observations and ideas to suggest answers to questions. Talk about what they have found out and how they found it out.
		To begin to use simple scientific vocabulary with prompting from the teacher.	To use scientific vocabulary competently and appropriately.

How will we implement science in our school?

- Planned teaching of science each half term through enquiry lessons in EYFS, which is progressive, and provide purpose and meaning for children. For KS1 this is a weekly discrete science lesson.
- Our termly 'sparky starts' provide opportunity the explore the natural world, our local community and focus on natural curiosity and questioning. It allows opportunity to learn through first hand experiences and practical tasks.
- Children will use science in their classrooms as part of their daily life at school to apply skills taught. For example, continuous provision, independent selection in COOL time.
- Weekly Forest School sessions ensures additional coverage of seasonal change, plants and habitats across the school.
- Evidence of science can be seen in individual pupil science books (in KS1), on Tapestry, class learning journey displays and on enquiry medium term planning and enquiry organisers.
- Each half term, children have opportunity to develop their working scientifically skills. This is usually in the form of a science investigation and fair testing, but also provides opportunity to observe over time, research, sort/classify and noticing patterns.

- Children are encouraged regularly to ask and answer their own questions through investigations designed by their class/teacher/group. ٠
- ٠ Our school research centre, including IT and books, is also used as secondary sources of information.
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- Our whole school annual **healthy week** also provide opportunity to embed knowledge and skills linked to the human body. Our **daily class routine** includes teaching of seasonal change and weather, including reading scales for temperature as appropriate. •