St John's C of E Infant School Knowledge, Skills and Vocabulary Progression Map **Science**



	EYFS	Year 1	Year 2
Skills to work Scientifically	Talk about their own ideas. Begin to test their own ideas. Question why things happen. Begin to use science vocabulary. Use equipment and tools safely. Talk about plants, animals, natural and found objects. Create simple representations of people and objects. Use senses and look closely. Notice similarities and differences.	Ask simple questions in response to the teacher. Understand and use the question words what, why, where, when and how with support. Make observations using appropriate senses. Test ideas suggested to them and begin to make own suggestions. Say what has happened in a test/enquiry. Make simple comparisons and groupings. Say whether what has happened was what they expected. Draw and label simple pictures. Use simple charts to communicate findings. Communicate observations orally and simple writing e.g. stem sentences.	Ask their own questions. Independently understand and use the question words what, why, where, when and how. Use simple equipment to aid observations. Compare and contrast observations. Begin to recognise when a test or comparison is unfair. Design a test to answer their own questions. Say what their observations from an enquiry show. Begin to draw simple conclusions from their enquiry. Begin to suggest improvements in their work. Collect and record data (supported by teacher). Suggest how enquiry data could be collected to answer questions. Begin to plan and choose their own equipment.
Кеу	Test	Investigate	Experiment
vocab	What Why	What Why How	What, why, how, because "I know" and" I think"
Nature and	Plants, Animals and Seasonal Changes:	Plants:	Plants:
living things	Knowledge-	Knowledge - Know names of a variety of common wild and garden plants, including deciduous and evergreen trees.	To know that seeds and bulbs grow into mature plants.

Know about similarities and differences in	To know the parts of plants and trees.	Find out and describe how plants need water, light
relation to places, objects, materials and		and a suitable temperature to grow and stay healthy.
living things.	Skill- Identify and name a variety of common	
To know about a simple life cycle.	Identify and describe the basic structure of a variety of	
Skill-	common flowering plants, including trees.	Skill-Observe and describe how seeds and bulbs grow
Talk about the features of their own		into mature plants.
immediate environment and how	Animals Including Humans:	
environments might vary from one another.	Knowledge- To know the names of a variety of	
Make observations of animals and plants	common animals including fish, amphibians, reptiles,	
and explain why some things occur and talk	birds and mammals.	Animals Including Humans:
about changes.	To know names of animals that are carnivores,	Knowledge- To know that animals, including humans,
Make observations of plants that they have	herbivores and omnivores.	have offspring which grow into adults.
planted themselves.	To know the basic parts of the human body.	To know that animals and humans all have basic
	To Know which part of the body is associated with each	needs.
	sense.	To know what humans, need for a healthy lifestyle.
		Skills-
		Find out about and describe the basic needs of
	Skill- Identify and name a variety of common animals	animals, including humans, for survival (water, food
	including fish, amphibians, reptiles, birds and	and air).
	mammals.	Describe the importance for humans of exercise,
	Identify and name a variety of common animals that	eating the right amounts of different types of food,
	are carnivores, herbivores and omnivores. Describe	and hygiene.
	and compare the structure of a variety of common	
	animals (fish, amphibians, reptiles, birds and mammals including pets)	Living Things and Their Habitats:
	Identify, name, draw and label the basic parts of the	Knowledge- To know that things can be living, dead
	human body.	and never been alive.
	,	To know how habitats, provide basic needs for
	Seasonal Changes:	animals including food that they eat and that this
		creates a food chain.
	Knowledge- Name the seasons and associated weather	To know and name a variety of plants and animals in
	types.	their habitats, including microhabitats.
	Skill- Observe changes across the 4 seasons.	

		Observe and describe weather associated with the seasons and how day length varies.	Skill- Investigate 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 microhabitats. 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.
Materials	Materials: Knowledge- Know about similarities and differences in relation to places, objects, materials and living things. To know that matter can change state due to temperature. Skill- Talk about the features of their own immediate environment and how environments might vary from one another. Observe changing states of matter e.g. water freezing.	Everyday Materials: Knowledge- To know the names of different common materials. To know the properties of different materials. Skill- Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties.	Uses of Everyday Materials: Knowledge- To know that different materials are suited to different uses. To know that some materials can be changed by squashing, bending, twisting and stretching. Skill- 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 how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.

	ask my own questions about what I notice
differences between the natural world around me and contrasting environments, drawing on mywith the names of materials and properties as well as performing tests, pairing and grouping them. Identify and name plants and flowers and theirar	use different types of scientific enquiry to gather and record data use simple equipment where appropriate, to answer questions. Recognise the need for a fair test