**Science Whole School Curriculum Map** 

	Autumn 1	Autumn		Spring 1		Spring			Summer 1	Summer 2
	My Home and Family	Hot and Cold Places	Christmas	Dinosaurs	Once Upon a Time	Happil Aft	-	Careers	Mini Beasts	Under the Sea
Understanding the World The Natural World (Science)	The 5 senses  Naming body parts  Families  Pets or farm animals  Growing up  The school family  Where I live  Local area  What does a farmer do?  Black History Month author – Trish Cooke-	hot places or Cold places:	d and animals in	Finding out about dinosaurs in books, watching video clips, and at the museum  Herbivores and carnivores  Dinosaurs lived long ago  Freezing water  What is a paleontologist?  Water into ice	Features of traditional tales Boarshaw Clough Animals found in Boarshaw Clough Parts of a plant What plants need Naming flowers	Features of I Stories King Charles Royal Family The life cycle	and the	I can name some different jobs  I know that doctors and nurses look after us when we are unwell  I know that police officers and firefighters look after us  I know that both boys and girls can be builders	Minibeasts butterflies ladybirds caterpillars Life cycle of a butterfly	The seaside  Staying safe near the water  Animals that live on land  Animals that live under water  Features of a sea creature  How plastic is causing harm to sea life and how I can help to stop this  Floating and sinking
	Autumn 1	Autumn	1 2	Spring 1			Spring	2	Summer 1	Summer 2
Year 1 Science	Animals including humans - The human body  Children will learn to:  Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense  Seasonal Change  Children will learn to:	be ob ma wh ma olde na of ma	stinguish tween an ject and the aterial from nich it was ade entify and me a variety everyday aterials, cluding wood, astic, glass, etal, water and	Plants – Planting A  Children will learn to  Recap prior know  Identify and nan including fish, ar mammals  Animals including h  Children will learn to  Identify and nan that are carnivor  Describe and corof common anim	wledge of plants ne a variety of commo mphibians, reptiles, bii umans	n animals nnivores f a variety	planet  Children  Seasona  Children	will learn to:  Know why it is mportant to care for our planet I changes  will learn to:  Observe changes across the four seasons Observe and describe weather associated	Plants – Planting C  Children will learn to:  Identify and name a variety of common wild and garden plants, including evergreen and deciduous trees  Identify and describe the basic structure of a variety of common flowering plants, including trees	Children will learn to:  • Know where food has come from Seasonal Change  Children will learn to:  • Observe changes across the four seasons • Observe and describe weather associated with the seasons and how day length varies.

	Observe changes across the four seasons    Observe and describe weather associated with the seasons and how day length varies	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  Seasonal Change  Children will learn to:      Observe changes across the four seasons     Observe and describe weather associated with the seasons and how day length varies		with the seasons and how day length varies  Plants - Planting B  Children will learn to:  Work scientifically by observing closely and keeping records of how plants have changed over time		
		ltifically to ask simple questions and recognither and record data to help in answering  Autumn 2	nise that they can be answered in different w question.    Spring 1	ays. Observe closely, using equipm	ent. Perform simple tests .ldenti	ify and classify. Use observations to
Voor 2	Animals, including humans	Materials	Plants	Plants	Plants	Plants
Year 2						,
Science	Humans	Children will learn to:	Children will learn to:	Children will learn to:	Children will learn to:	Children will learn to:
	Understand that animals, including humans, have offspring which grow into adults  Animal's Needs for survival	Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.  Know that materials can be changed by squashing,	Observe 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.  Explore and compare the differences between things	Know what happens to a plant kept in the dark.  Living things and their habitats	Observe 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.	Observe how seeds and bulbs grow into mature plants.  Animals Including Humans - Growing up      Understand that animals, including humans, have offspring which grow

that are living, dead, and

things that have never been

Children will learn to:

Animals Including Humans -

Growing up

into adults.

Sustainability - Wildlife

bending, twisting and stretching.

Children will learn to:

	Describe 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.  Work scientifically to ask of	Know how we can reduce our plastic waste in school.	things that have never been alive.  Living things and their Habitats  Children will learn to:  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.	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.  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.	Children will learn to:  Understand the lifecycle of a butterfly.  The Perform simple tests Identity in the learn to:  The Perform simple tests Identity in the learn to:	Sustainability - Wildlife  Children will learn to:  Understand how wildlife is beneficial for humans.
	•	swers to questions. Gather and record		sserve closery, using equipmen	a. r crioim simple tests liden	any and classiny. Osc
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	Animals including humans –	Sustainability - Food Waste	Fossils	Light	Plants – A	Forces and Magnets
Science	Nutrition and Diet	Children will learn to:	Children will learn to:	Children will learn to:	Children will learn to:	Children will learn to:
	Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition form	Know what food waste is.  Rocks  Children will learn to:      Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	Describe in simple terms how fossils are formed when things that have lived are trapped within rock.  Soils  Children will learn to:      Recognise that soils are made from rocks and organic matter.	Recognise that they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces. Recognise that light from the sun can be dangerous and that there are ways to protect	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.  Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to	Compare how things move on different surfaces.  Notice that some forces need contact between two objects, but magnetic forces can act at a distance.  Observe ow magnets attract or repel each other and attract some materials and not others.  Compare and group together a variety of everyday materials on the basis of whether they are attracted to

	what they eat.  Skeletons - Movement  Children will learn to:  Identify that humans and some other animals have skeletons and muscles for support, protection and movement.			their eyes.  Recognise that shadows are formed when the light from a light source is blocked by and opaque object.  Children will find patterns in the way that shadows change.	plant.  Investigate the way in which water is transported within plants.  Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.	a magnet, and identify some magnetic materials.  Describe magnets as having two poles.  Predict whether two magnets will attract or repel each other, depending on which poles are facing.  Sustainability – Biodiversity  Children will learn to:  Know what biodiversity is.
	accurate measurements using st Record findings using simple scie conclusions. Use results to draw	andard units, using a range of equipment, incentific language, drawings, labelled diagrams,	Learn Mer them. Set up simple practical enquiries, of cluding thermometers and data loggers. Gath, keys, bar charts, and tables. Report on finding walues, suggest improvements and raise furth their findings.	her recording, classifying and preser ngs from enquiries, including oral ar	nting data in a variety of ways to nd written explanations, displays	help in answering questions. or presentations of results and
		1	The support their financials			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 4 Science	Autumn 1 Group and classify living things	·		Spring 2 Electricity	Summer 1 Habitats	Summer 2 The Digestive System

	accurate measurements using Record findings using simple s	ing different types of scientific enquiries to ar standard units, using a range of equipment, i cientific language, drawings, labelled diagram	including thermometers and data loggers. Gans, keys, bar charts, and tables. Report on fin	ather recording, classifying and pres dings from enquiries, including oral	enting data in a variety of ways t and written explanations, display	to help in answering questions.
		w simple conclusions, make predictions for n d scientific evidence to answer questions or t	new values, suggest improvements and raise o support their findings.	further questions. Identify differend	ces, similarities or changes related	d to simple scientific ideas and
	processes. Use straightforward		o support their findings.	, ,	Summer 1	d to simple scientific ideas and
Year 5		d scientific evidence to answer questions or t		Spring 2  Animals including humans	•	·

			the changes experienced in puberty.		the particular uses of everyday materials, including metals, wood and plastic.  • Demonstrate that dissolving, mixing and changes of state are reversible changes.  • Explain that some changes result in the formation of the new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	
Year 6 Science	precision, taking repeat readings predictions to set up further con	ent types of scientific enquiries to answer questic when appropriate. Record data and results of inparative and fair tests. Report and present finding entific evidence that has been used to support on the control of	ncreasing complexity using scientific diagrams an ngs from enquiries, including conclusions, causa	d labels, classification keys, tables, sca	itter graphs, bar and line graphs. U	se using test results to make

			Children will learn to:	lead to	
				evolution.	
			<ul> <li>Learn how their</li> </ul>		
			bodies might be		
			_		
			damaged – including how		
			_		
			some drugs and other substances		
			can be harmful to		
			the human body.		
			Research the		
			relationship		
			between diet,		
			exercise, drugs,		
			lifestyle and		
			health.		
Children will: Plan different typ	es of scientific enquiries to answer questions	s, including recognising and controlling variab	les where necessary. Take measure	ements, using a range of scientific	c equipment, with increasing
		ata and results of increasing complexity using	•		, , , , ,
·	· · · · · · · · · · · · · · · · · · ·	s. Report and present findings from enquiries,		onsnips and explanations of and	degree of trust in results, in oral
and written forms such as displ	lays and other presentations .ldentify scient	ific evidence that has been used to support or	refute ideas or arguments.		