

Curricular Goal

To give every child a broad and balanced Science curriculum which enables them to confidently explore and discover what is around them, so that they have a deeper understanding of the world we live in.

			Autumn Term 1			
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Me, My School and I	Everyday Materials	Animals Including	Animals Including	Living Things and	Properties and	Animals Including
		Humans	Humans	their Habitats	Changes in Materials	Humans
How have I changed?	 Identify and name 					
What do I look like?	everyday materials.	Say how an animal	Understand that	Sort living things	Identify and	Identify the main
What changes do I	Describe simple	will change as it	plants and animals	into groups.	describe materials	parts of the
notice in the Autumn	properties of	grows.	obtain food in	Identify vertebrate	and their properties.	circulatory system.
term?	everyday materials.	Draw an animal as a	different ways.	groups.	Identify materials	Explain the main
	 Distinguish 	baby and then as an	Explain what the	Explain the	that are soluble or	functions of the
Seasons - Autumn	between an object	adult.	right type and	difference between	insoluble in water.	heart, lungs and
Name and identify	and the material it is	Name the different	amounts of nutrition	vertebrates and	Follow instructions	blood vessels in the
body parts.	made from.	stages in the human	are for human beings	invertebrates.	to test a material's	circulatory system.
Match, sort and	Sort objects by their	timeline.	as well as some of	Identify the	properties.	Explain what
compare.	properties.	Say how an animal	the consequences	characteristics of	Identify and explain	constitutes a healthy
	Make a prediction.	gets air, food and	related to eating the	living things.	the uses of thermal	lifestyle.
	Perform simple	water.	wrong type of diet.	Create a	and electrical	Describe how drugs
	tests.	Give examples of	Identify the main	classification key.	conductors and	and alcohol can
		healthy and less	bones in the body	Use the	insulators.	impact negatively on
		healthy food.	and how a skeleton	characteristics of	Explain and	the body.
		Give reasons why	protects, supports	living things to sort	investigate dissolving.	Understand the
		humans need to	and helps the body to	them using a	Explain the	processes of how
		exercise.	move.	classification key.	processes used to	water and nutrients
		Give reasons why	Explain how pairs of	Name some	separate mixtures.	are transported in the
		humans should keep	muscles work	endangered species.	Identify and explain	body.
		themselves clean	together to enable	Identify dangers to	irreversible changes.	
			movement.	wildlife in the local		
				and wider		
				environment.		

	Autumn Term 2								
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
What changes do I notice in Autumn?	Everyday Materials	Animals Including Humans	Rocks	Sound	Animals Including Humans	Evolution and Inheritance			
Seasons - Autumn Joining materials Making comparisons	(Continued from Autumn 1)	(Continued from Autumn 1)	 Name some types of rock and give physical features of each Explain how a fossil is formed Classify rocks in a range of different ways using appropriate vocabulary e. g. by looking for grains and crystals Devise tests to explore the properties of rocks and use data to rank the rocks – using rubbing and/or immersion in water Link rocks changing over time with their properties e.g. soft rocks get worn away more easily Identify plant/animal organic matter and rocks in samples of soil and can compare different soils 	Give examples of different sources of sounds Explain how sounds are produced. Explain how the pitch of a sound is linked to the features of the object that produced it (high and low). Generalise patterns between force and volume.	Order and name the six stages of human development. Demonstrate understanding of how babies grow in height. Describe the main changes that occur during puberty in both boys and girls. Explain the main changes that take place in old age.	Understand how inherited characteristics creativariations in offsprinand shape who we are. Explain how animals and plants adapt to suit their environment. Understand the theory of evolution. Discover how fossi provide information about pre-historic living things. Explain how humans have evolved. Describe how humans have intervened in the process of evolution.			

	Spring Term 1						
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Let's Explore	Animals Including Humans	Living Things and their Habitat	Plants	Electricity	Forces	Living Things and their Habitat	
What weather			Identify the	Identify electrical	Explain that		
patterns do we	Name, draw and	Say what is	different parts of	and non-electrical	unsupported objects	Give reasons for the	
notice?	label the basic parts	different about things	flowering plants.	appliances.	fall towards the Earth	classification of	
What is ice and how	of the body.	that are living, dead	• Explain the	Explain how a	because of the force	animals.	
does it change?	Name the senses	or have never been	functions of the	circuit works.	of gravity acting	Sort and group	
What animals live in	and say which body	alive.	different parts of	Name at least two	between the Earth	animals based on	
cold places?	part is associated	• Explain some of the	plants.	electrical conductors	and the falling object.	their features.	
What do we notice	with each sense.	life processes. • Describe the	Identify different	and insulators.	• Identify the effects	Classify living things	
about animals? How do they survive?	• Identify and name a range of common	conditions in a	parts of a flower. • Identify and	Create a simple series circuit both	of air resistance, water resistance and	based on their characteristics	
How do these	animals.	habitat.	describe the stages of	with and without a	friction, that act	Name and describe	
environments	Describe the	Describe the	the life cycle of	switch.	between moving	the different types of	
compare to where we	structure of common	characteristics of	flowering plants.	Sort appliances	surfaces	micro-organisms	
live?	animals, including	some plants and	Howering plants.	based on whether	Recognise that	Describe the useful	
What changes do we	some parts of the	animals.		they use mains or	some mechanisms,	and harmful effects	
notice in Winter?	body that are specific	Identify some		batteries.	including levers,	of different	
	to animals.	plants and animals in			pulleys and gears,	micro-organisms	
Contrasting	Understand that	global habitats.			allow a smaller force		
environments	animals have	Identify and name			to have a greater		
Seasons - Winter	different diets.	minibeasts in			effect.		
Change of state (ice	 Understand the 	microhabitats.					
Different types of	difference between	 Suggest how an 					
weather	carnivores,	animal is able to					
	herbivores and	survive in their					
	omnivores.	habitat.					
		Explain why the					
		animals in a habitat					
		need the plants.					
		Draw a simple food					
		chain.					



			Spring Term 2			
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
!	Plants	Uses of Everyday Materials	Plants		Earth and Space	Light/Electricity
How do materials feel? What are their properties? What materials are strong for building? Let's make a healthy picnic How can we keep our teeth healthy? What is climate change? How can I help look after my world? What materials can we recycle? What changes do we notice about Spring?	Plants • Label the parts of a colant. • Say three things that plants and trees need to grow. • Identify some common plants and crees. • Label the parts of a cree. • Plant a seed and/or coean. • Sort leaves into groups of deciduous and evergreen. • Observe how my colant changes as it grows.	Uses of Everyday Materials Identify and name everyday materials. Identify different uses of everyday materials. Demonstrate and explain how shapes of objects made from some materials can be changed. Explain what recycling means. Compare the uses of different everyday materials. Compare the suitability of different everyday materials. Record my observations.	(Continued from Spring 1)		 Describe the movement of the Earth, and other planets, relative to the Sun in the solar system Describe the movement of the Moon relative to the Earth Describe the Sun, Earth and Moon as approximately spherical bodies Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. 	Explain how light travels to enable us to see. • Understand that all objects reflect light. • Identify the angles of incidence and reflection. • Understand refraction as light bending or changing direction. • Explain how a prism allows us to see the visible spectrum. • Understand that colours are a result of light reflecting off an object. • Explain Isaac Newton's experiments about light and colour. • Understand how shadows change size. • Understand that shadows are the same shape as the object that casts



	Summer Term 1							
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
Growing	Animals Including	Plants	Forces and Magnets	Animals Including	Living Things and	Scientific Enquiry		
What grows in my	Humans			Humans	their Habitats			
garden?		Follow instructions	Compare how					
What does	(Continued from	to plant a seed and a	things move on	 Identify parts of the 	 Identify and explain 			
everything need to	Spring 1)	bulb.	different surfaces	digestive system.	the function of the			
help it grow?		Label the main	Notice that some	Match the parts of	parts of a flower.			
Why are trees so big?		parts of plants and	forces need contact	the digestive system	Explain the			
How can I grow my		trees	between two objects,	with their functions.	difference between			
own vegetables?		 Describe the stages 	but magnetic forces	 Match the types 	sexual and asexual			
Which fruits grow in		in the life cycle of a	can act at a distance	and functions of	reproduction.			
our country and		plant.	Observe how	teeth.	Describe ways			
which don't?		 Explain that plants 	magnets attract or	Construct and	plants can be			
How did it become a		need water, light and	repel each other and	interpret a food	pollinated.			
butterfly?		a suitable	attract some	chain.	 Identify and 			
How do chicks hatch?		temperature to grow	materials and not		describe the stages in			
How do animals		well.	others		the process of sexual			
change as they grow?		Make observational	Compare and group		reproduction.			
What is frogspawn		drawings of plants.	together a variety of		 Identify and 			
and how does it		Use observations to	everyday materials		describe different			
change?		explain how we can	on the basis of		types of mammals.			
What are baby		tell that plants are	whether they are		 Identify familiar 			
animals called?		living things.	attracted to a		animals that undergo			
			magnet, and identify		metamorphosis.			
Life cycles			some magnetic		Order and describe			
Growing			materials		the stages of the life			
Animals and their			Describe magnets		cycles of mammals,			
babies			as having two poles		birds, insects and			
Making observations			Predict whether		amphibians.			
Comparing			two magnets will		 Identify similarities 			
similarities and			attract or repel each		and differences			
difference			other, depending on		between the life			

	which poles are	cycles of different	
	facing.	plants and animals.	

	Summer Term 2								
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6			
The Great Outdoors	Plants	Plants	Light	States of Matter	Revisit and Review	Revisit and Revisit			
What is a minibeast? Where do they live? What clothes do we need for very hot days? How can we keep safe in the sun? What changes do we notice in Summer? Contrasting environments Summer Minibeasts	(Continued from Spring 2)	(Continued from Summer 1)	Identify light sources. Know that light travels in a straight line. Know how to protect their eyes from the Sun. Understand that a shadow is formed when a solid object blocks light. Understand why shadows change size. Understand how surfaces reflect light. Identify some parts of the eye. Identify opaque, translucent and transparent objects.	Sort materials into solids, liquids and gases. Describe the properties of solids, liquids and gases. Explain that melting and freezing are opposite processes that change the state of a material. Identify the melting and freezing point of several different materials. Explain that heating causes evaporation and cooling causes condensation. Explain that the higher the temperature, the quicker water evaporates. Explain what happens to water at the different stages of the water cycle.					



	Throughout the year - Working Scientifically							
Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6		
 Ask simple questions to find out more Explore the natural world to solve real problems Notice similarities, differences and changes Use all senses to observe closely Create simple representations Use simple materials and tools 	Ask simple quest recognise that the answered in difference of the control of	ey can be rent ways use simple tests sify vations and ideas to questions and data to help	Ask relevant question types of scientific enquivables of scientific end and, where appropriate measurements using strange of equipment, included and data loggers Gather, record, classification of ways to help a scient end or and ways to help a scient end or and written explandables. Report findings from or and written explandables or and written explandables or and written explandables. Use results to draw simple end or and written explandables of results. Use results to draw simple end or and the processes. Use straightforward scient processes. Use straightforward scients or to see the processes.	iries to answer them al enquiries, sts careful observations e, take accurate andard units using a cluding thermometers by and present data in a answer questions simple scientific relled diagrams, keys, enquiries, including ations, displays or and conclusions mple conclusions, ew values, suggest e further questions imilarities or changes ific ideas and cientific evidence to	Plan different types of answer questions, inclusions controlling variables with Take measurements, it is cientific equipment, with and precision, taking reappropriate Record data and result complexity using scient labels, classification key graphs, bar and line grain Use test results to make up further comparative Report and present find including conclusions, of explanations of and degin oral and written form other presentations Identify scientific evidused to support or refuse.	ding recognising and here necessary using a range of ith increasing accuracy peat readings when alts of increasing ific diagrams and as, tables, scatter uphs like predictions to set and fair tests and fair tests notings from enquiries, causal relationships and gree of trust in results, as such as displays and lence that has been		