

Science Curriculum Map

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2	
Nursery 1	Use all their senses in hands on exploration.						
-	Explore collections of natural materials						
	Talk about or respond to	what they are seeing or o	experiencing in the natural	world.			
	Show curiosity and intere	st in the natural environ	ment.				
Nursery 2	Can describe what they se	ee, hear and feel.					
	Explore collections of mat	terials with similar and/o	or different properties.				
	Talk about things using a	wide vocabulary.					
Year R	My Body and where I	Seasons	Push and pull	Wheels	Growing plants	Floating and sinking	
	live						
Xey stage 1 – Sc	ientific skills						
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Year 2	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 how the shape of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Animals including humans - notice that animals including humans have offspring, which grow into adults. find out about and describe the basic need of animals including humans for survival (water, food and air).	cuitable temperature to group	Living things 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 plant 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.
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Lower Key Stage 2 – Scientific skills							
iring years 3 and 4, pupi	Is should be taught to use the followi	ng practical scientific methods, proc	cesses and skills through the teachi	ng of the programme of study cont	ent:		
 asking relevant questions and using different types of scientific enquiries to answer them 							
 setting up simple practical enquiries, comparative and fair tests 							
 making system 	atic and careful observations and, wh	nere appropriate, taking accurate me	easurements using standard units,	using a range of equipment, includi	ing thermometers and data loggers		
- gathering, reco	ording, classifying and presenting data	a in a variety of ways to help in answ	vering questions				
 recording findi 	ngs using simple scientific language, o	drawings, labelled diagrams, keys, b	ar charts, and tables				
 reporting on fit 	ndings from enquiries, including oral	and written explanations, displays o	r presentations of results and conc	usions			
 using results to 	odraw simple conclusions, make pred	lictions for new values, suggest imp	rovements and raise further question	ons			
 identifying diff 	erences, similarities or changes relate	ed to simple scientific ideas and prod	cesses				
	, 3						
 using straightf 	prward scientific evidence to answer	questions or to support their finding	IC				
 using straightfo 	prward scientific evidence to answer	questions or to support their finding	<u>i</u> s.				
- using straightfo	prward scientific evidence to answer	questions or to support their finding Forces and magnets	s. Rocks	Plants	Animals including humans		
	Light - recognise that they need	Forces and magnets - compare how things move on	Rocks - compare and group together	- identify and describe the	- identify that animals including humans need the right types		
	Light - recognise that they need light in order to see things	Forces and magnets - compare how things move on different surfaces.	Rocks - compare and group together different kinds of rocks on the	 identify and describe the functions of different parts of 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ow		
	Light - recognise that they need light in order to see things and that dark is the	Forces and magnets - compare how things move on different surfaces. - notice that some forces need	Rocks - compare and group together different kinds of rocks on the basis of their appearance and	 identify and describe the functions of different parts of flowering plants: roots, 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat.		
	Light - recognise that they need light in order to see things and that dark is the absence of light.	Forces and magnets - compare how things move on different surfaces. - notice that some forces need contact between two objects	Rocks - compare and group together different kinds of rocks on the basis of their appearance and simple physical properties.	 identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - recognise that they need light in order to see things and that dark is the absence of light. - notice that light is reflected	Forces and magnets - compare how things move on different surfaces. - notice that some forces need contact between two objects but magnetic forces can act at	Rocks - compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. - describe in simple terms how	- identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat.		
	Light - 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.	Forces and magnets - compare how things move on different surfaces. - notice that some forces need contact between two objects but magnetic forces can act at a distance.	Rocks - 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	 identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. explore the requirements of 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how magnets attract	Rocks - 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	 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, 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how magnets attract or repel each other and attract	Rocks - 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.	 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 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how magnets attract	Rocks - 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. - recognise that soils are made	 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 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how magnets attract or repel each other and attract some materials and not others.	Rocks - 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. - recognise that soils are made from rocks and organic matter.	 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 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
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	Light - 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	Forces and magnets - 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 how magnets attract or repel each other and attract some materials and not others. - compare and group together	Rocks - 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. - recognise that soils are made from rocks and organic matter. - recognise that shadows are	 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 plant. investigate the way in which 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their or food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how magnets attract or repel each other and attract some materials and not others. - compare and group together a variety of everyday materials	Rocks - 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. - recognise that soils are made from rocks and organic matter. - recognise that shadows are formed when light from a light	 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 plant. investigate the way in which water is transported within 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their or food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how 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	Rocks - 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. - recognise that soils are made from rocks and organic matter. - recognise that shadows are formed when light from a light source is blocked by an	 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 plant. investigate the way in which water is transported within plants. 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their ov food; they get their nutrition from what they eat. identify that humans and some other animals have		
	Light - 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	Forces and magnets - 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 how 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 a magnet and	Rocks - 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. - recognise that soils are made from rocks and organic matter. - recognise that shadows are formed when light from a light source is blocked by an opaque object.	 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 plant. investigate the way in which water is transported within plants. explore the part that flowers 	- identify that animals including humans need the right types and amounts of nutrition, and that they cannot make their or food; they get their nutrition from what they eat. identify that humans and some other animals have		

Year 4	Sound - identify how sounds are made, associating some of them with something vibrating. - recognise that vibrations from sound travel through a medium to the ear. - find patterns between the pitch of a sound and features of the object that produced it. - find patterns between the volume of a sound and the strength of the vibrations that produced it. - recognise that sounds gets fainter as the distance from the sound source increases.	Electricity - identify common appliances that run on electricity. - construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. - identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. - recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple circuit.	States of matter - compare and group materials together, according to whether they are solids, liquids or gases. - observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius. - identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. recognise some common conductors and insulators and associate metals with being good conductors.	Living things and their habitats - recognise that living things can be grouped in a variety of ways. - explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. - recognise that environments can change and that this can sometimes pose dangers to living things.	Animals including humans - describe the simple functions of the basic parts of the digestive system in humans - identify the different types of teeth in humans and their simple functions. - construct and interpret a variety of food chains, identifying
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Upper Key Stage 2 – Scientific skills

During years 5 and 6, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary

- taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate

- recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

- using test results to make predictions to set up further comparative and fair tests

- reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations - identifying scientific evidence that has been used to support or refute ideas or arguments

Year 5 Earth and space -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	Properties and changes of materials - compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets - know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution.	Forces - explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object - identify the effects of air resistance, water	Living things and their habitats - describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird. - describe the process of	Animals including humans - describe the changes as humans develop to old age.
- describe the movement of	 know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including 	Earth and the falling object - identify the effects of	amphibian, an insect and a bird.	

-recognise that living things have changed over time and that fossils provide information about living things	Year 6	 -recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago - recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead a lam, buzze voltag circuit com variat functi com variat functi 	zzer with the number and tage of cells used in the cuit ompare and give reasons for riations in how components action, including the ghtness of bulbs, the idness of buzzers and the /off position of switches e recognised symbols when presenting a simple circuit	 use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes use the idea that light travels in straight lines to explain why shadows have the same shape as the 	are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals - give reasons for classifying plants and animals based on	 recognise the impact of diet, exercise, drugs and lifestyle on th way their bodies function describe the ways in which nutrients and water are transported
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