

Science						
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	All About Me	Cold Climates	London	Spring	Africa	Oh, I do like to be beside the
	POR: Grace & Family	POR: The Emperor's Egg	POR: Claude in the City	POR: The Secret Sky Garden	POR: Lila & the Secret of Rain	seaside!  POR: The Storm  Whale
	Learning about ourselves, our families, our local area and living history.	Learning about Antarctica versus the Arctic, Animals and colder climates.	Learning about the features of a city, simple maps and the Great Fire of London	Learning about plants, changes in weather and map skills	Learning about the continent, with a focus on Nelson Mandela and Africa animals.	Learning about the seaside past and present. Our town now and then and coastal towns.
_	Animals including	Plants	Seasons	Plants	Animals	Everyday
Year POR = Power of Reading	identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals identify and name a variety of common animals that are carnivores, herbivores and omnivores	throughout the year  identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees.	observe changes across the four seasons	throughout the year  identify and name a variety of common wild and garden plants, including deciduous and evergreen trees identify and describe the basic structure of a variety of common flowering plants, including trees.	describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	Materials distinguish between an object and the material from which it is made compare and group together a variety of everyday materials on the basis of their simple physical properties. describe the simple physical properties of a variety of everyday materials identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock



_	bolotice - National Outhoutin Coverage by Teal Oloup - 2023-24
	Continuous throughout the year Working scientifically
	asking simple questions and recognising that they can be answered in different ways
	observing closely, using simple equipment performing simple tests
	identifying and classifying using their observations and ideas to suggest answers to questions
	gathering and recording data to help in answering questions

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Once upon a Time	Looking Back	Amazing Journeys	Move it!	Let's Explore	Land Ahoy!
	Learning about traditional tales	Learning about the geography and history of our Local Area	Author Study – Anthony Browne	Learning about the history of transport	Learning about explorers	Learning about another country – Australia and the impact of plastic on the Great Barrier Reef
Year 2	identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses  Research significant person – Charles Macintosh  Continuous throughout to Working scientifically  asking simple questions and observing closely, using simple tests	nd recognising that they can	Animals Including Humans - Health, Survival and Life Cycles  notice that animals, including humans, have offspring which grow into adults  find out about and 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	Plants & Seeds  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  Observe and describe how seeds and bulbs grow into mature plants	Living Things and their habitats  Explore and compare the differences between things that are living, dead, and things that have never been alive identify and name a variety of plants and animals in their habitats, including microhabitats 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	Habitats from around the World  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
	identifying and classifying					

using their observations and ideas to suggest answers to questions
gathering and recording data to help in answering questions

	gathering and recording da	ta to help in answering que	•			
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	The Iron Man	Healthy Me	Shake, Rattle and Roll	The Romans	Dragons!	Plant Life
	Learning about the Ted Hughes book and linking to magnetic objects and forces.	Learning about the digestive system, health and fitness and our family history	Learning about volcanoes, earthquakes and how archaeology helps us learn about the past.	Learning about the capital cities of European countries and why England was invaded by visitors from the continent	Learning about dragons real and imagined using books as a stimulus	Learning about plants and their function how they help the environment and why we need to protect the rainforests from deforestation
$\sim$	Forces & Magnets	Animals including	Rocks & Layers of the Earth	Light	Plants	Plant Discovery
Year 3	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 identify some magnetic materials  describe magnets as having two poles	humans  identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat  identify that humans and some other animals have skeletons and muscles for support, protection and movement.	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 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 their eyes  recognise that shadows are formed when the 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 play in the life cycle of flowering plants, including	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 play in the life cycle of flowering plants, including



predict whether two magnets will attract or repel each other, depending on which poles are facing.		find patterns in the way that the size of shadows change	pollination, seed formation and seed dispersal.	pollination, seed formation and seed dispersal.
Continuous throughout the year Working scientifically			-L	
<ul> <li>asking relevant questions at setting up simple practical of a setting up simple practical of a making systematic and care including thermometers and gathering, recording, classing recording findings using sing reporting on findings from the using results to draw simple identifying differences, similar</li> </ul>	and using different types of scientific er enquiries, comparative and fair tests of lobservations and, where appropria d data loggers fying and presenting data in a variety of many pole scientific language, drawings, laboratics, including oral and written experiences, including oral and written experiences or changes related to simple so- larities or changes related to simple so- tific evidence to answer questions or to	ate, taking accurate measurement of ways to help in answering ques helled diagrams, keys, bar charts, a planations, displays or presentatio www. values, suggest improvements cientific ideas and processes	tions and tables ns of results and conclusion	ons

	Ocience ival		diditi coverage by Tear C		<i>3</i>
	Autumn 1 Invaders!	Autumn 2 It's all Greek to Me!	Spring 1 & 2 WarWhat is it good for?	Summer 1 River Deep, Mountain High!	Summer 2 Seven WorldsOne Planet
	Learning about key moments in British History such as The Vikings, Anglo Saxons	Learning about the Ancient Greek influence on our lives today	Learning about the impact of the Second World War especially focusing on the local area	Learning about the geography and history of a mountainous region around the world	Learning about the effects of humans on the environment
Year 4	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 producers, predators and prey	Animals 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	identify how sounds are made, associating some of them with something vibrating  recognise that vibrations from sounds 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 get fainter as the distance from the sound source increases	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 series circuit recognise some common conductors and insulators, and	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 (°C) identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature



Continuous throughout the year
<ul> <li>asking relevant questions and using different types of scientific enquiries to answer them</li> <li>setting up simple practical enquiries, comparative and fair tests</li> <li>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</li> <li>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</li> <li>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</li> <li>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</li> <li>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</li> <li>identifying differences, similarities or changes related to simple scientific ideas and processes</li> <li>using straightforward scientific evidence to answer questions or to support their findings.</li> </ul>

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Walk like ar	n Egyptian	Challenge Planet Earth	Plague!	Oh H	lenry!
	Learning about the Ai how the		Learning about global warming, impact on the environment and the challenge to protect our planet	Learning about life in medieval Britain during the time of The Black Death		Tudor times and how lived.
Year 5	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  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 metals, wood and plastic demonstrate that dissolving, mixing and	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	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 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 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 resistance and friction, that act between moving surfaces  recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect	Animals including Humans  describe the changes as humans develop to old age  Living Things and their Habitats  describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird	Living Things and their Habitats  describe the life process of reproduction in some plants and animals



5	Science - National Curric	ulum Coverag	e by Year G	iroup – 2023	3-24
	changes of state are reversible changes			•	
	explain that some changes result in the formation of 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				
	Continuous throughout the year				
	Working scientifically				
	planning different types of scientific enquiries to answ	er questions, including recognisi	ng and controlling variable	s where necessary	
	taking measurements, using a range of scientific equi	pment, with increasing accuracy	and precision, taking repe	at readings when appropri	ate
	recording data and results of increasing complexity us	sing scientific diagrams and labe	ls, classification keys, table	es, scatter graphs, bar and	line graphs
	using test results to make predictions to set up further	•			
	reporting and presenting findings from enquiries, inclu forms such as displays and other presentations	ıding conclusions, causal relation	nships and explanations of	and a degree of trust in re	sults, in oral and written
	identifying scientific evidence that has been used to s	upport or refute ideas or argume	nts		

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	The Victor	l orian Age	Extreme Earth	Mayan Mahem	And now, the end	I is near, and so I al curtain
		(ictorian Age and their n our lives	Learning about the extreme climates found on Planet Earth and how people have overcome them	Learning the great historical time of The Mayans and how they lived.		nsition to secondary eaving Friars.
Year 6	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 resistance and friction, that act between moving surfaces  recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect	Recognise that light appears to travel in straight lines  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 objects that cast them  Electricity  associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit compare and give reasons for variations in how components	Living Things and their Habitats  describe how living things 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 specific characteristics	Animals including Humans  identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood  recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function  describe the ways in which nutrients and water are transported within animals, including humans	recognise that living thing time and that fossils proviving things that inhabite years ago recognise that living thing the same kind, but normanot identical to their pare identify how animals and suit their environment in adaptation may lead to e	is have changed over ide information about d the Earth millions of its produce offspring of ally offspring vary and are nts plants are adapted to different ways and that



•	bliefice - National Cumculum Coverage by Teal Gloup - 2023-24				
	function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches				
	use recognised symbols when representing a simple circuit in a diagram				
	Continuous throughout the year				
	Working scientifically				
	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 a 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				