



		Autumn	Spring	Summer							
Cycle A	EYFS Understanding the World	<p>In the Forest-Plants and birds</p> <p>Use all their senses in hands-on exploration Talk about what they see, using a wide vocabulary Understand the key features of the life cycle of a plant and an animal Begin to understand the need to respect and care for the natural environment and all living things Explore the natural world around them Describe what they see, hear and feel whilst outside Understand the effect of changing seasons on the natural world around them</p>	<p>Toys-Everyday materials</p> <p>Use all their senses in hands-on exploration of natural materials Explore collections of materials with similar and/or different properties Talk about what they see, using a wide vocabulary Explore how things work Explore and talk about different forces they can feel Talk about the differences between materials and changes they notice Understand the effect of changing seasons on the natural world around them</p>	<p>Journeys-Animals</p> <p>Talk about what they see, using a wide vocabulary Understand the key features of the life cycle of an animal Begin to understand the need to respect and care for the natural environment and all living things Understand the effect of changing seasons on the natural world around them</p>							
	Class 1 Year 1	<p>In the Forest</p> <p>Plants-naming and observing (Year 1)</p> <ul style="list-style-type: none"> ❖ identify and name a variety of common wild and garden plants, including deciduous and evergreen trees <p>identify and describe the basic structure of a variety of common flowering plants, including trees.</p> <p>Animals including humans (Year 1)</p> <ul style="list-style-type: none"> ❖ 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 omnivores¹ ❖ describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) <p>Seasonal Changes: Autumn to Winter</p> <ul style="list-style-type: none"> ❖ observe changes across the four seasons 	<p>Toys</p> <p>Use of everyday materials (Year 1)</p> <ul style="list-style-type: none"> ❖ 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. <p>Seasonal Changes: Winter to Spring</p> <ul style="list-style-type: none"> ❖ observe changes across the four seasons ❖ observe and describe weather associated with the seasons and how day length varies. <p>Working scientifically</p>	<p>Journeys</p> <p>Animals including humans (Year 1)</p> <ul style="list-style-type: none"> ❖ 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 omnivores¹ ❖ describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) <p>Seasonal Changes: Spring to Summer</p> <ul style="list-style-type: none"> ❖ observe changes across the four seasons ❖ observe and describe weather associated with the seasons and how day length varies. <p>Working scientifically</p> <p>≈ asking simple questions and recognising that they can be answered in different ways</p>							
		connect	sequence	change	replace	reduce	compare	add	arrange	classify	assemble



	<ul style="list-style-type: none"> ❖ observe and describe weather associated with the seasons and how day length varies. 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 	<ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ≈ 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
<p>Class 2</p>	<p style="text-align: center;">Invasion (Romans)</p> <p>Use of everyday materials (year 2)</p> <ul style="list-style-type: none"> ❖ 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 <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ asking simple questions and recognising that they can be answered in different ways ≈ observing closely, using simple equipment ≈ performing simple tests ≈ identifying and classifying 	<p style="text-align: center;">Wild Water</p> <p>Plants (Year 3)</p> <ul style="list-style-type: none"> ❖ 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 pollination, seed formation and seed dispersal <p>Forces and magnets (Year 3)</p> <ul style="list-style-type: none"> ❖ compare how things move on different surfaces 	<p style="text-align: center;">Comparisons (location study)</p> <p>Animals including humans (Year 2)</p> <ul style="list-style-type: none"> • 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 <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ asking simple questions and recognising that they can be answered in different ways ≈ observing closely, using simple equipment

connect	sequence	change	replace	reduce	compare	add	arrange	classify	assemble
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	<ul style="list-style-type: none"> ≈ using their observations and ideas to suggest answers to questions ≈ gathering and recording data to help in answering questions 	<ul style="list-style-type: none"> ❖ notice that some forces need contact between 2 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 2 poles ❖ predict whether 2 magnets will attract or repel each other, depending on which poles are facing <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ≈ 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
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Class 3</p>	<p style="text-align: center;">Invaders and Settlers (Anglo-Saxons & Vikings)</p> <p>States of Matter (Year 4)</p> <ul style="list-style-type: none"> ❖ 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) 	<p style="text-align: center;">Survival (Natural Disasters)</p> <p>Electricity (Year 4)</p> <ul style="list-style-type: none"> ❖ 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 	<p style="text-align: center;">Discovery (Mayans)</p> <p>Earth & Space (Year 5)</p> <ul style="list-style-type: none"> ❖ 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



	<ul style="list-style-type: none"> ❖ identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature. <p>Living things and their habitats (Year 6)</p> <ul style="list-style-type: none"> ❖ describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including microorganisms, plants and animals ❖ give reasons for classifying plants and animals based on specific characteristics. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ❖ 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 associate metals with being ❖ good conductors. <p>Properties & changes of materials (year 5)</p> <ul style="list-style-type: none"> ❖ 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 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. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ asking simple questions and recognising that they can be answered in different ways ≈ observing closely, using simple equipment ≈ performing simple tests ≈ identifying and classifying 	<ul style="list-style-type: none"> ❖ movement of the sun across the sky. <p>Light (Year 6)</p> <ul style="list-style-type: none"> ❖ 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. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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
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		<p>≈ using their observations and ideas to suggest answers to questions</p> <p>≈ gathering and recording data to help in answering questions</p>	
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		Autumn	Spring	Summer
Cycle B	EYFS Understanding the World	<p>You and Me-Ourselves, pets Use all their sense in hands on exploration Understand the key features of the life cycle of an animal Begin to understand the need to respect and care for all living things Understand the effect of changing seasons on the natural world around them</p>	<p>Traditional Stories-everyday materials, changes Use all their sense in hands on exploration Explore how things work Talk about the differences between materials and changes they notice Understand the effect of changing seasons on the natural world around them</p>	<p>Out and about-Growing plants Use all their sense in hands on exploration Plant seeds and care for growing plants Understand the key features of the life cycle of a plant Begin to understand the need to respect and care for the natural environment and all living things Explore the natural world around them Describe what they see, hear and feel whilst outside Understand the effect of changing seasons on the natural world around them</p>
	Class 1 year 1	<p>You and Me Animals including humans (Year 1)</p> <ul style="list-style-type: none"> ❖ 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 ❖ describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) 	<p>Traditional Stories (Fire of London)</p> <p>Use of everyday materials (Year 1)</p> <ul style="list-style-type: none"> ❖ 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. 	<p>Out and about (Local History)</p> <p>Plants-growing focus (Year 1)</p> <ul style="list-style-type: none"> ❖ 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. <p>Seasonal Changes: Spring to Summer</p> <ul style="list-style-type: none"> ❖ observe changes across the four seasons ❖ observe and describe weather associated with the seasons and how day length varies. <p>Working scientifically</p>



	<ul style="list-style-type: none"> ❖ identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. <p>Seasonal Changes: Autumn to Winter</p> <ul style="list-style-type: none"> ❖ observe changes across the four seasons ❖ observe and describe weather associated with the seasons and how day length varies. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 ≈ 	<p>Seasonal Changes: Winter to Spring</p> <ul style="list-style-type: none"> ❖ observe changes across the four seasons ❖ observe and describe weather associated with the seasons and how day length varies. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ≈ 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
Class 2	<p style="text-align: center;">Grand Designers (Egyptians)</p> <p>Animals including humans (Year 3)</p> <ul style="list-style-type: none"> ❖ 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 <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ asking simple questions and recognising that they can be answered in different ways ≈ observing closely, using simple equipment ≈ performing simple tests 	<p style="text-align: center;">Extreme Survival (Physical Geography)</p> <p>Living things and their habitats (Year 2)</p> <ul style="list-style-type: none"> ❖ 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 plants, and how they depend on each other ❖ identify and name a variety of plants and animals in their habitats, including microhabitats 	<p style="text-align: center;">Captivating Creators (Stone Age)</p> <p>Light and dark (Year 3)</p> <ul style="list-style-type: none"> ❖ 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 ❖ find patterns in the way that the size of shadows change <p>Rocks (Year 3)</p>



Class 3	<ul style="list-style-type: none"> ≈ identifying and classifying ≈ using their observations and ideas to suggest answers to questions ≈ gathering and recording data to help in answering questions 	<ul style="list-style-type: none"> ❖ 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 <p>Plants (Year 2)</p> <ul style="list-style-type: none"> ❖ 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 <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ❖ 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 <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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
	<p style="text-align: center;">Britain at War (WW2)</p> <p>Forces (Year 5)</p> <ul style="list-style-type: none"> ❖ 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. 	<p style="text-align: center;">Going Places (Geographical skills)</p> <p>Sound (year 4)</p> <ul style="list-style-type: none"> ❖ 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 	<p style="text-align: center;">Legacy (Ancient Greeks)</p> <p>Evolution & Inheritance (Year 6)</p> <ul style="list-style-type: none"> ❖ 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 to evolution. <p>Animals including humans (Year 5)</p>

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	<p>Electricity (Year 6)</p> <ul style="list-style-type: none"> ❖ 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 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. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ❖ recognise that sounds get fainter as the distance from the sound source increases. <p>Living things and their habitats (Year 5)</p> <ul style="list-style-type: none"> ❖ describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird ❖ describe the life process of reproduction in some plants and animals. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<ul style="list-style-type: none"> ❖ describe the changes as humans develop to old age. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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
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		Autumn	Spring	Summer
Cycle C	Class 3	<p>Crime & Punishment</p> <p>Animals including humans (Year 4)</p> <ul style="list-style-type: none"> ❖ 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 <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<p>Climate Control</p> <p>Living things and their habitats (Year 4)</p> <ul style="list-style-type: none"> ❖ 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. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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 	<p>Fit for a king? (Tudors: King Henry VIII)</p> <p>Animals including humans (Year 6)</p> <ul style="list-style-type: none"> ❖ 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. <p>Working scientifically</p> <ul style="list-style-type: none"> ≈ 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