

Subject Strand: Animals Including humans (including Y6 Evolution and Inheritance)

	EIFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>Personal, Social and Emotional Development Understanding The World 3 and 4 year olds Continue developing positive attitudes about the differences between people. Reception Describe what they see, hear and feel whilst outside.</p> <p>3 and 4 year olds Understand the key features of the life cycle of a plant and an animal.</p> <p>Manage their own needs: Personal hygiene</p> <p>Know and talk about the different factors that support their overall health and wellbeing: regular physical activity, healthy eating, toothbrushing, sensible amounts of 'screen time', having a good sleep routine, being a safe pedestrian.</p>	<p>identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals</p> <p>describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets)</p> <p>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>	<p>notice that animals, including humans, have offspring which grow into adults</p> <p>find out about and describe the basic needs of animals, including humans, for survival (water, food and air)</p> <p>describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene</p>	<p>identify that humans and some other animals have skeletons and muscles for support, protection and movement</p> <p>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</p> <p>(Rocks) describe in simple terms how fossils are formed when things that have lived are trapped within rock-Progression to Y6 evolution and inheritance</p>	<p>construct and interpret a variety of food chains, identifying producers, predators and prey</p> <p>describe the simple functions of the basic parts of the digestive system in humans</p> <p>identify the different types of teeth in humans and their simple functions</p>	<p>describe the changes as humans develop to old age</p> <p>(Living things and their habitats) describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.</p>	<p>identify and name the mainparts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</p> <p>describe the ways in which nutrients and water are transported within animals, including humans recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>describe the ways in which nutrients and water are transported within animals, including humans</p> <p>(Evolution and inheritance) recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</p>

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Vocabulary		<p>Fish, Reptiles, Mammals, Birds, Amphibians (+ examples of each) Herbivore, Omnivore, Carnivore, Leg, Arm, Elbow, Head, Ear, Nose, Back, Wings, Beak Touch, taste, sight, smell, hear</p>	<p>Survival, Water, Air, Food, Adult, Baby, Offspring, Exercise, Hygiene</p> <p>Examples of animal offspring e.g. Kitten, Calf, Puppy</p>	<p>Movement, Muscles, Bones, Skull, Nutrition, Skeletons</p> <p>Protection, Movement</p>	<p>Mouth, Tongue, Teeth, Oesophagus, Stomach, Small Intestine, Large Intestine, Canine, Incisor, Molar</p>	<p>Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, Elderly, Growth, Development, Puberty</p>	<p>Circulatory, Heart, Blood Vessels, Veins, Arteries, Oxygenated, Deoxygenated, Valve, Exercise, Respiration</p>

Subject Strand: Plants

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>EYFS: 3 and 4 year olds Understand the key features of the life cycle of a plant and an animal.</p> <p>EYFS: 3 and 4 year olds Plant seeds and care for growing plants.</p>	<p>identify and name a variety of common wild and garden plants, including deciduous and evergreen trees</p> <p>identify and describe the basic structure of a variety of common flowering plants, including trees</p>	<p>observe and describe how seeds and bulbs grow into mature plants</p> <p>find out and describe how plants need water, light and a suitable temperature to grow and stay healthy</p>	<p>identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p> <p>investigate the way in which water is transported within plants</p> <p>explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal</p> <p>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</p>			

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Vocabulary		<p>Deciduous, Evergreen trees, Leaves, Flowers (blossom), Petals, Fruit, Roots, Bulb, Seed, Trunk, Branches, Stem</p>	<p>Seeds, Bulbs, Water, Light, Temperature, Growth</p>	<p>Air, Light, Water, Nutrients, Soil, Reproduction, Transportation, Dispersal, Pollination, Flower</p>			

Subject Strand: Materials

	EIFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>Understanding The World: 3 and 4 year olds</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.</p> <p>Understanding The World: 3 and 4 year olds</p> <p>Talk about the differences between materials and changes they notice.</p>	<p>distinguish between an object and the material from which it is made</p> <p>identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock</p>	<p>identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses</p> <p>describe the simple physical properties of a variety of everyday materials</p> <p>compare and group together a variety of everyday materials on the basis of their simple physical properties</p>	<p>Rocks-compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</p>	<p>States of matter-compare and group materials together, according to whether they are solids, liquids or gases</p> <p>States of matter-identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature</p>	<p>Properties and changes of materials: give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic</p> <p>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</p> <p>Y5 Properties and changes of materials: 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> <p>demonstrate that dissolving, mixing and changes of state are reversible changes</p> <p>know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution</p> <p>use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating</p>	<p><i>Y6 Evolution and inheritance:</i> recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago)</p>

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Subject Strand: Living things and their habitats

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>Understanding The World</p> <p>Reception:</p> <p>recognise some environments that are different from the one in which they live.</p>		<p>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</p> <p>identify and name a variety of plants and animals in their habitats, including microhabitats</p> <p>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>		<p>recognise that environments can change and that this can sometimes pose dangers to livingthings</p> <p>recognise that living things can be grouped in a variety of ways</p> <p>explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment</p>	<p>describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</p> <p>describe the life process of reproduction in some plants and animals</p>	<p>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</p> <p>give reasons for classifying plants and animals based on specific characteristics</p>

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Vocabulary			<p>Living, Dead, Alive, Habitat, Energy, Food chain, Predator, Prey, Woodland, Pond, Desert</p>		<p>Fish, Amphibians, Reptiles, Birds, Mammals, Invertebrate, Vertebrate Worms, Spiders, Insects, Environment, Habitats</p>	<p>Mammal, Reproduction, Insect, Amphibian, Bird, Offspring</p>	<p>Classification, Vertebrates, Invertebrates, Micro-organisms, Amphibians, Reptiles, Mammals, Insects</p>



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Subject Strand: Forces and Magnets

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>3 and 4 year olds:</p> <p>explore and talk about different forces they can feel</p> <p>explore how things work</p>			<p>compare how things move on different surfaces</p> <p>notice that some forces need contact between 2 objects, but magnetic forces can act at a distance</p> <p>observe how magnets attract or repel each other and attract some materials and not others</p> <p>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</p> <p>describe magnets as having 2 poles</p> <p>predict whether 2 magnets will attract or repel each other, depending on which poles are facing</p>		<p>explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</p> <p>identify the effects of air resistance, water resistance and friction, that act between moving surfaces</p> <p>recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect</p>	

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Vocabulary				<p>Magnetic, Force, Attract, Repel, Friction, Poles, Push, Pull</p>		<p>Air resistance, Water resistance, Friction, Gravity, Newton, Gears, Pulleys</p>	



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Subject Strand: Electricity

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge					<p>identify common appliances that run on electricity</p> <p>construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</p> <p>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> <p>recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</p> <p>recognise some common conductors and insulators, and associate metals with being good conductors</p>		<p>associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</p> <p>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</p> <p>use recognised symbols when representing a simple circuit in a diagram</p>

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Vocabulary					<p>Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators</p>	<p>Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators, Amps, Volts, Cell</p>



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Subject Strand: Light

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge				<p>recognise that they need light in order to see things and that dark is the absence of light</p> <p>notice that light is reflected from surfaces</p> <p>recognise that light from the sun can be dangerous and that there are ways to protect their eyes</p> <p>recognise that shadows are formed when the light from a light source is blocked by an opaque object</p> <p>find patterns in the way that the size of shadows change</p>			<p>recognise that light appears to travel in straight lines</p> <p>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</p> <p>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</p> <p>use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them</p>



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Vocabulary				Light, Shadows, Mirror, Reflective, Dark, Reflection			Refraction, Reflection, Light, Spectrum, Rainbow, Colour

Subject Strand: Sound

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>Understanding the world</p> <p>Reception: Describe what they see, hear and feel whilst outside.</p> <p>Expressive arts and design</p> <p>3 and 4 year olds: Listen with increased attention to sounds.</p> <p>Respond to what they have heard, expressing their thoughts and feelings.</p>				<p>identify how sounds are made, associating some of them with something vibrating</p> <p>recognise that vibrations from sounds travel through a medium to the ear</p> <p>find patterns between the pitch of a sound and features of the object that produced it</p> <p>find patterns between the volume of a sound and the strength of</p>		



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					<p>the vibrations that produced it</p> <p>recognise that sounds get fainter as the distance from the sound source increases</p>		
Disciplinary					<p>asking relevant questions and using different types of scientific enquiries to answer them</p> <p>setting up simple practical enquiries, comparative and fair tests</p> <p>making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</p> <p>gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p> <p>recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p> <p>reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p>		



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					<p>using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p> <p>identifying differences, similarities or changes related to simple scientific ideas and processes</p> <p>using straightforward scientific evidence to answer questions or to support their findings.</p>		
Vocabulary					Volume, vibration, wave, pitch, tone, speaker		

Subject Strand: Seasonal Changes and Earth and Space

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Substantive knowledge	<p>Understanding The World</p> <p>Reception:</p> <p>Explore the natural world around them.</p> <p>Understand the effect of changing seasons on the natural world around them.</p>	<p>observe changes across the 4 seasons</p> <p>observe and describe weather associated with the seasons and how day length varies</p>				<p>describe the movement of the Earth and other planets relative to the sun in the solar system</p> <p>describe the movement of the moon relative to the Earth</p> <p>describe the sun, Earth and moon as approximately spherical bodies</p>	



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						use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky	
Disciplinary		<p>asking simple questions and recognising that they can be answered in different ways</p> <p>performing simple tests</p> <p>observing closely, using simple equipment</p> <p>using their observations and ideas to suggest answers to questions</p> <p>gathering and recording data to help in answering questions</p> <p>identifying and classifying</p>				<p>planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>using test results to make predictions to set up further comparative and fair tests</p> <p>taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate</p> <p>recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs</p> <p>reporting and presenting findings from enquiries, including conclusions, causal relationships</p>	



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						<p>and explanations of and a degree of trust in results, in oral and written forms such as displays and other presentations</p> <p>identifying scientific evidence that has been used to support or refute ideas or arguments</p>	
Vocabulary		<p>Summer, Spring, Autumn, Winter, Sun, Day, Moon, Night, Light, Dark</p>				<p>Earth, Sun, Moon, Axis, Rotation, Day, Night, Phases of the Moon, star, constellation</p>	