



Progression Map

Reception			<p>Key Knowledge: *Know the names of common dinosaurs *Know that different dinosaurs ate different food *Understand the terms 'herbivore', 'carnivore' and 'omnivore' *Know whether a dinosaur was a herbivore or carnivore based on certain physical features.</p> <p><u>Herbivores/Carnivores</u> Vocabulary: Herbivore, carnivore, omnivore, meat eater, plant eater, tyrannosaurus Rex, Velociraptor, ankylosaurus, Brontosaurus, triceratops, stegosaurus, diplodocus</p>	<p>Key Knowledge: *Understand the term prediction *Know that water can change with the freezing/melting process *Know that ice melts when it is heated *Know different methods of heating Vocabulary: Freeze, freezing, melt, melting, cold, ice, icy, water, watery, slippery, change, heat, method Predict, test, observe, record</p>	<p>Key Knowledge: *Know the name of the four seasons *Name the autumn colours *Know what the weather is like in Autumn *Knows how some trees change in Autumn *Understand why some animals/plants hibernate *Know the effects autumn has on the natural world around them Vocabulary: Autumn, Winter, Summer, Spring,</p>					<p>Key Knowledge : *What a volcano is *The difference between a dormant and active volcano *Know what happens to a volcano when it erupts *Know some key vocabulary e.g. magma etc.. *Link volcanoes to the dinosaur extinction Vocabulary : Volcano, extinct, dormant,</p>		<p>Key Knowledge: *Know what a fossil is *Know how fossils are formed *Know what a palaeontologist is/does <u>Fossils</u> Vocabulary: Fossil, Palaeontologist, Extinct, identify, print, cast, excavate, bones, observe</p>
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ABBAY MEAD
PRIMARY ACADEMY

Progression Map

					season, red, yellow, orange, green, brown, grey, evergreen, deciduous, hibernate					active, ash, sunlight, lava, erupts, smoke, ash cloud, magma		
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Progression Map

Year 1	<p>DK1: Identify and classify different food based on the senses</p> <p>DK1: Identify and classify materials based on their properties</p> <p>DK1: Identify and classify animals</p> <p>DK1: Identify and classify plants and trees</p> <p>DK1: Perform simple test</p> <p>DK1: Observe changes across the seasons</p> <p>DK1: Observe changes over time</p> <p>DK2: Gathering data using apparatus</p> <p>DK2: Gather and record data to answer simple questions</p> <p>DK3: Notice patterns across the seasons</p> <p>DK3: Notice patterns across a group of animals</p>	<p>Key knowledge:</p> <p>*Know a variety of common wild and garden plants</p> <p>*Know the basic structure of a variety of flowering plants a trees</p> <p>*Know examples of different trees and identify what makes them different</p> <p>Vocabulary: Plants, Leaf Flowers, Stem, Roots Deciduous, Evergreen Trunk, Branch Petal, Fruit, Bulb, Seed, Bramble, Dandelion, Daisy, Buttercup, Bluebells, Rose, Sunflower,</p>	<p>Key knowledge:</p> <p>*Identify, name, draw and label the basic parts of the human body</p> <p>*Know which body parts related to each of the 5 senses</p> <p>Vocabulary: Head, Neck, Arms, Elbow, Legs, Knees, Face, Ears, Eyes, Nose, Hair, Mouth, Teeth, Senses, Taste, Touch, Smell, Hear, See</p> <p>Key knowledge:</p> <p>*Know a variety of common animals</p> <p>*Know a variety of common animals based on what they eat</p> <p>*Know the structure of a variety of common animals</p> <p>(Can all birds fly? Do all mammals have 2/4 legs?)</p> <p>Vocabulary: Fish, Amphibian, Reptiles, Birds, Mammals, Herbivore, Carnivore,</p>	<p>Key knowledge:</p> <p>*Know the difference between an object and the material from which it is made</p> <p>*Identify and name a variety of everyday materials</p> <p>*Know about the properties of some everyday materials</p> <p>*Know a variety of everyday materials based on their properties</p> <p>Vocabulary: Wood, Plastic, Glass, Paper, Water, Metal, Rock, Hard, Soft, Bendy, Rough, Smooth</p>	<p>Key knowledge:</p> <p>*Know the four seasons</p> <p>* Know what the weather is like in different seasons</p> <p>*Know how day length varies</p> <p>Vocabulary : Summer Spring Autumn Winter Seasons Climate Day Night Weather Compare Record Observe Temperatur e, Dawn, Dusk, Months, Solstice, Sun, Day, Moon, Light, Dark</p>							
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Progression Map

Year 2	<p>DK1: Identify and classify materials based on their properties</p> <p>DK1: Identify and classify plants</p> <p>DK1: Identify and classify food groups</p> <p>DK1: Perform a simple test</p> <p>DK1: Observe changes over time</p> <p>DK2: Gather and record data to answer simple questions</p> <p>DK3: Ask simple questions about the world around them</p>	<p>Key knowledge:</p> <p>*Know how seeds and bulbs grow into mature plants</p> <p>*Know what plants need to grow and stay healthy</p> <p>Vocabulary:</p> <p>Seeds, Bulbs, Water, Light, Suitable temperature, Grow, Healthy, Germinate, Decompose</p>	<p>Key knowledge:</p> <p>*Know how animals and humans change as they mature</p> <p>*Know what animals need to stay alive</p> <p>*Know the importance of exercise and need to eat different types of food</p> <p>Vocabulary:</p> <p>Survival, Water, Air, Food, Adult, Baby, Offspring, Kitten, Calf, Puppy, Exercise, Hygiene</p>	<p>Key knowledge:</p> <p>*Know how to select an appropriate material for a given job</p> <p>*Know what happens when materials are squashed, bent, twisted or stretched</p> <p>Vocabulary:</p> <p>Hard, Soft, Stretchy, Stiff, Shiny, Dull, Rough, Smooth, Bendy, Waterproof, Absorbent, Opaque, Transparent, Brick, Paper, Fabrics, Squashing, Bending, Twisting, Stretching, Elastic, Foil</p>					<p>Key knowledge:</p> <p>*Know what all living things have in common</p> <p>*Know where plants and animals live in the local environment</p> <p>*Know about food chains</p> <p>*Know how plants thrive and are healthy</p> <p>Vocabulary</p> <p>: Living, Dead, Habitat, Energy, Food chain, Predator, Prey, Woodland, Pond, Desert</p>			
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Progression Map

Year 3	<p>DK1: To group and classify different food groups</p> <p>DK1: Observe changes over time</p> <p>DK1: To recognise when a simple fair test is necessary and help to decide how to set it up</p> <p>DK1: To begin to compare based on test results</p> <p>DK2: Gather and record data to answer simple questions</p> <p>DK3: Ask simple questions about the world around them</p> <p>DK4: Recognise the different secondary sources may be beneficial to their research</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know the functions of different parts of flowering plants *Know the things that plants need to grow *Know leaves are essential in helping it to produce food *Know how water is transported within plants *Know the life cycle of flowering plants, including pollination <p>Vocabulary:</p> <p>Air, Light, Water, Nutrients, Soil, Reproduction, Transportation, Dispersal, Pollination, Flower.</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> * Know about the food pyramid and the effect the different foods have on our body *Know about nutrients, minerals, carbohydrates, proteins and vitamins * Know animals and humans cannot make their own food *Know the purpose of the skeleton *Know the purpose of muscles <p>Vocabulary:</p> <p>Movement, Muscles, Bones, Skull, Nutrition, Skeletons,</p>			<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know how things move on different surfaces Know what friction is and how it affects moving objects *Know what a contact force is *Know what a non-contact force *Know some magnetic materials *Know magnets have two poles and these attract or repel each other. <p>Vocabulary:</p> <p>Magnetic, Force, Contact, Attract, Repel, Friction, Poles, Push, Pull</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know that we need light to see *Know that darkness is the absence of light *Know how shadows are formed *Know that light is reflected from surfaces *Know that the size of shadows change <p>Vocabulary:</p> <p>Light, Shadows, Mirror, Reflective, Dark, Reflection, Light Source, Cast</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know how rocks are formed *Know how to identify, group and classify different kinds of rocks *Know how fossils are formed when living things have been trapped inside them *Know that soils are made from organic matter. <p>Vocabulary:</p> <p>Fossils, Soils, Sandstone, Granite, Marble, Pumice, Crystals, Sedimentary, Metamorphic, Igneous,</p>		
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ABBAY MEAD
PRIMARY ACADEMY

Progression Map

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Progression Map

Year 4	<p>DK1: To group and classify living things</p> <p>DK1: To group, classify and compare solids, liquids, and gases</p> <p>DK1: Explore the effects of deforestation</p> <p>DK1: Conduct comparative and fair tests</p> <p>DK1: Observe the changes within the water cycle</p> <p>DK1: Take accurate measurements using standard units, using a range of equipment</p> <p>Use tables, bar charts to record data.</p> <p>DK2: Analyse the data</p> <p>DK2: Gather, record, classify and present data in a variety of ways to help in answering questions.</p> <p>DK2: Gather and record data to</p>		<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know what digestion is *Know the different parts of the digestive system *Know the different types of teeth in humans and their simple functions *Know a variety of food chains. <p>Vocabulary: Mouth, Tongue, Teeth, Oesophagus, Stomach, Small Intestine, Large Intestine, Herbivore, Carnivore, Canine, Incisor, Molar</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know what 'state' is *Know what 'matter' is *Know what solids, liquids and gasses are *Know that some materials change state when they are heated or cooled *Know processes involved in the water cycle such as evaporation and condensation <p>Vocabulary: Solid, Liquid, Gas, Evaporation, Condensation, Particles, Temperature, Freezing, Heating, Precipitation</p>			<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know which appliances use electricity *Know and use components to construct a circuit *Know that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit *Know some common conductors and insulators <p>Vocabulary: Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators, Brightness</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know how sounds are made, associating some of them with something vibrating *Know that vibrations travel through a medium to the ear *Know what pitch is *Know that there is a patterns between the volume of a sound and vibrations *Know that sounds get fainter as the distance increases. <p>Vocabulary: Volume, Vibration, Wave, Pitch, Tone, Speaker</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know that living things can be grouped in a variety of ways *Know how to use classification keys to help group, identify and name a variety of living things *Know that environments can change and that this can sometimes pose dangers to living things. <p>Vocabulary: Vertebrates, Fish, Amphibians, Reptiles, Birds, Mammals, Invertebrates</p>			
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Progression Map

	<p>answer simple questions DK3: Notice patterns between circuits DK3: Construct and interpret a variety of food chains DK3: Investigate patterns between the volume of a sound and the strength of vibrations DK4: Recognise the different secondary sources may be beneficial to their research</p>								<p>es, Snails, Slugs, Worms, Spiders, Insects, Environment, Habitats</p>			
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Progression Map

Year 5	<p>DK1: Observe the changes that take place over time</p> <p>DK1: Observe the life cycle of animals and plants</p> <p>DK1: Grouping and classifying a range of materials based on their properties</p> <p>DK1: Conduct comparative and fair tests</p> <p>DK1: Compare the life cycle of animals and plants</p> <p>DK2: Gather, record, classify and present data in a variety of ways to help in answering questions</p> <p>DK3: Explore the effects of friction on movement and find out how it slows or stops moving objects</p> <p>DK3: Notice patterns within the gestation periods</p>		<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know the changes as humans develop to old age. *Know how the human and animal gestation compare <p>Vocabulary: Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, Elderly, Growth, Development, Puberty; Circulatory, Heart, Blood Vessels, Veins, Arteries, Oxygenated, Deoxygenated, Valve, Exercise, Respiration</p>	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know how to compare and group together everyday materials based on 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 *Know how mixtures might be separated, including through filtering, sieving and evaporating *Know about the uses of 		<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know what gravity is *Know what air resistance is and its effect *Know when friction is helpful and when it is not <p>Vocabulary: Air Resistance, Water Resistance, Friction, Gravity, Newton, Gears, Pulleys, Lever, Force, Pivot (Fulcrum)</p>			<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know the differences in the life cycles of different types of animals *Know the life process of reproduction in some plants and animals. <p>Vocabulary: Mammal, Reproduction, Insect, Amphibian, Bird, Offspring; Classification, Vertebrates, Invertebrates, Microorganisms, Amphibians, Reptiles, Mammals, Insects</p>		<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know how the Earth and other planets move, relative to the Sun in the solar system *Know how the Moon moves relative to the Earth *Know that the Sun, Earth, and Moon are approximately spherical bodies *Know how Earth's rotation to explain day and night and the apparent 	
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Progression Map

	DK4: Recognise the different secondary sources may be beneficial to their research			everyday materials, including metals, wood and plastic *Know that dissolving, mixing and changes of state are reversible changes *Know 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. *Know reversible changes, including, evaporating, filtering, sieving, melting and dissolving, recognising								movement of the sun across the sky. Vocabulary: Earth, Sun, Moon, Axis, Rotation, Day, Night, Phases of the Moon, star, constellation, waxing, waning, full, new, year, month	
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Progression Map

Year 6	<p>DK1: Conduct comparative and fair tests</p> <p>DK1: Observe the changes that take place over time</p> <p>DK1: Grouping different living things</p> <p>DK2: Gather, record, classify and present data in a variety of ways to help in answering questions</p> <p>DK3: Draw conclusions based on data analysis</p> <p>DK4: Recognise the different secondary sources may be beneficial to their research</p>		<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know the main parts of the human circulatory system *Know the functions of the heart, blood vessels and blood *Know the impact of diet, exercise, drugs, and lifestyle on the way their body's function *Know the ways in which nutrients and water are transported within animals, including humans <p>Vocabulary:</p> <p>Adolescence, Diverse, Embryo, Equipped, Foetus, Gestation, Generation, Mature, Puberty, Unique, Womb</p>				<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know how the number and voltage of cells used in the circuit affects the brightness of a lamp or the volume of a buzzer *Know reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches *Know how to use recognised symbols when representin 	<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know that light appears to travel in straight lines *Know that light travels in straight lines and that objects are seen because they give out or reflect light into the eye *Know 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>Key knowledge:</p> <ul style="list-style-type: none"> *Know 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 *Know how to classify plants and animals based on specific characteristics. 			<p>Key knowledge:</p> <ul style="list-style-type: none"> *Know that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago *Know that living things produce offspring of the same kind, but
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Progression Map

							<p>g a simple circuit in a diagram</p> <p>Vocabulary: Electrons, Cell, Switch, Series, circuit, Voltage, Current, Simple circuit, Wire, Motor, Conductor, Component s, Amps, Light bulb, buzzer, battery, insulator, symbols, resistance</p>	<p>*Know that light travels in straight lines to explain why shadows have the same shape as the objects that cast them</p>				<p>normally offspring vary and are not identical to their parents *Know how animals and plants are adapted to suit their environment in different ways and that adaptati on may lead to evolution</p>
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