#### PROGRESSION OF VOCABULARY, SKILLS AND KNOWLEDGE

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Vocabulary Progression	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Animals including humans	Head, Arm, Leg, Hand, Foot, Finger, Toe, Nails, Eye, Ear, Mouth, Skin, Touch, Smell, Sight, Hearing, Taste  Animal, alive, living, non-living, mammal, reptile, fish, bird, insect, breathe, diet, carnivore, herbivore  Dinosaur, Meteor, Extinct, Fossil, Continent Heart, Lungs, Breath, Physical, Strength, Fitness, Exercise, Rest  Diet, Meat, Fish, Fruit, Vegetable, Dairy, Vitamin, Calcium, Clean, Hygiene.	Head, body, eyes, ears, mouth, teeth, tail, leg, wing, claw, fin, scales, feathers, fur, beak, paw, hoof, arm  Sense, touch, taste, smell, see, hear, skim, eyes, nose, tongue, hearing, eyesight, ear, feel	Offspring, reproduction, adolescent, caterpillar, hygiene, germs, protein, carbohydrate, fat, nutrient, life cycle, life stage	Protein, carbohydrate, fat, nutrient, sugars, nutrition, vitamins, minerals, skeleton, bones, fibre, water, muscle, digestion, skull, ribs, spine, joints	Digestive system, digestion, mouth, teeth, saliva, oesophagus, stomach, small intestine, large intestine, rectum, anus, incisor, canine, molar, premolar, herbivore, carnivore, omnivore, producer, predator, prey, apex predator, food chain, food web	Puberty, adolescents, elderly, foetus, gestation period, adulthood	Heart, pulse, pump, blood, blood vessel, artery, vein, aorta, vena cava, ventricle, atrium, valve, oxygenated, deoxygenated, oxygen, carbon dioxide, nutrients, circulatory system, diet, drugs, lifestyle, exercise
Everyday Materials	Hard, Soft, Squishy, See-through, Bendy, Flexible, Waterproof, Absorb, Metal Stretchy, Elastic, Brittle, Hard, Soft, Bendy, Bouncy, Flexible	Object, material, wood, plastic, glass, metal, rock, brick, paper, fabric, elastic, foil, rubber, wool, hard, soft, stretchy, stiff, bendy, waterproof, absorbent, brittle, shiny, dull, transparent, opaque	Object, material, wood, plastic, glass, metal, rock, brick, paper, fabric, elastic, foil, rubber, wool, hard, soft, stretchy, stiff, bendy, waterproof, absorbent, brittle, shiny, dull, transparent, opaque, reflective, non-reflective, translucent, plasticity			Thermal conductor, thermal insulator, electrical conductor, electrical insulator, change of state, mixture, dissolve, solute, solvent, solution, insoluble, filtration, evaporation, evaporation technique, soluble, reversible change, irreversible change, burning	
Light				Light, light source, dark, transparent, translucent, opaque, shiny, matt, shadow, reflect			Light, light source, dark, transparent, translucent, opaque, shiny, matt, shadow, reflect, straight lines, ray diagram,
Magnets				See forces			
Electricity					Electricity, appliance, mains, plug, circuit, complete circuit, open circuit, cell, battery, electrode, positive, negative connection, crocodile, clip, bulb, bulb holder, switch, buzzer, motor, component, conductor, insulator, wire, metal, non-metal, circuit symbol		Electricity, appliance, mains, plug, circuit, complete circuit, open circuit, cell, battery, electrode, positive, negative, connection, crocodile clip, bulb, bulb holder, switch, buzzer, motor, component, conductor, insulator, wire, metal, non-metal, circuit symbol, voltage, current
Seasonal changes	Hot, Heat, Cold, Warm, Summer, Autumn, Spring, Winter, Melt, Ice, Snow, Solid, Liquid, Float, Sink, Cool. Sun, Rain, Snow, Windy, Thunderstorm, Lightning, Hot, Cold, Warm, Temperature	Weather, climate, windy, sunny, rainy, snowy, season, winter, spring, summer, autumn, temperature, tornado, lightning, thunder, rainfall, sunrise, sunset, horizon, day length, day light, night-time, thermometer, rain gauge					
Plants	Leaf, Stem, Root, Flower, Petal, Soil, Fruit, Seed, Stalk	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud, bulb, germination	Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud, bulb, germination, shade, nutrient	Photosynthesis, pollen, pollination, seed dispersal, anther, filament, stigma, style, ovule, ovary, fertilisation, stomata, transpiration, Xylem,			

Living things and their habitats	Habitats, Environment, Polar, Desert, Ocean, Rainforest, Grassland, Adapted.  Insect, Habitat, Environment, Surface, Ocean, Forest, Desert, Polar  Plant, Leaves, Flower, Tree, Petal, Soil	Living, dead, never been alive, habitat, food chain, grassland, forest, pond, woodland, desert, ocean, polar, microhabitat, excretion, reproduction, respiration, mountains, river		Classification, classification key, human impact, positive, environment, habitat, negative, migration, hibernate, extinct,	Life cycle, reproduction, sexual reproduction, sperm, fertilisation, egg, metamorphosis, asexual reproduction, pollination, seed, bulb, cutting, larva, pupa, chrysalis, imago	Vertebrates, invertebrates, fish, amphibians, reptiles, birds, mammals, insects, flowering, non-flowering, aorta, diaphragm, DNA, taxonomy
Rocks			Sedimentary, igneous, metamorphic, fossil, soil, porous, weathering, mineral, crystal, texture, hardness, drainage			
Forces	Push, Pull, Force, Magnet, Attract, Repel Float, Sink, Wide, Narrow, Weight, Load, Heavy, Light		Force, push, pull, twist, contact force, non-contact force, magnetism, magnet, attract, repel, magnetic material, iron, steel, neodymium, magnadur magnet, pole, friction magnetic field		Force, push, pull, twist, contact force, non-contact force, friction, gravity, air resistance, water resistance, machine, lever, pulley, gears	
Sound				Sound, source, vibrate, vibration, travel, pitch, frequency, volume, faint, loud, insulation, solid, liquid, gas, dissipate, spread		
States of matter				State of matter, change of state, solid, liquid, gas, melting, freezing, solidify, melting point, boiling point, evaporation, condensation, temperature, water cycle, precipitation, cloud		
Earth and Space					Sun, moon, mercury, Venus, earth, mars, Jupiter, Saturn, Uranus, Neptune, spherical, elliptical, rotation, orbit, clockwise, anticlockwise,	
Evolution and inheritance						Sexual reproduction, asexual reproduction, offspring, reproduction, variation, characteristics, adaption, environment, inherited, evolution, species, fossils

#### PROGRESSION OF VOCABULARY, SKILLS AND KNOWLEDGE

SUBJECT: SCIENCE

Skills Progression	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Five types of experimental skills  1. Observe over time  2. Pattern seeking  3.Identifying, classifying and grouping  4. Comparative and Fair test  5. Research using secondary sources	1. I can observe changes over time 2. I can observe changes and patterns 3. I can identify and classify 4. I can perform simple tests 4. I can perform a fair test with adult support	1. I can observe changes over time  2. I can observe changes and patterns  3. I can identify and classify  4. I can perform simple tests  4. I can perform a fair test with adult support	1. I can use simple equipment to observe closely including changes over time  2. I can use observations and ideas to suggest answers to questions noticing similarities, differences and patterns  3. I can identify, group and classify  4. I can perform simple comparative tests  5. I can gather and record data to help in answering questions including from secondary sources of information	1. I can make systematic and careful observations over time  2. I can ask questions surrounding patterns I have found in data.  3. I can gather, record, classify and present data in a variety of ways  4. I can set up simple practical enquiries, comparative and fair tests  5. I can use secondary sources with adult support to help clarify results seen.	1. I can make systematic and careful observations over time, looking at similarities and differences.  2. I can ask questions surrounding patterns I have found in data.  3. I can gather, record, classify and present data in a variety of ways to help in answering questions  4. I can set up simple practical enquiries, comparative and fair tests  5. I can use secondary sources with adult support to help clarify results seen.	1. I can observe over time, asking pertinent questions about similarities and differences.  2. I can ask questions surrounding patterns I have found in data as to why something I have observed has happened.  3. I can classify, group and present data in a series of ways to help in answering questions  4. I can take measurements, using a range of scientific equipment, with increasing accuracy and precision.  5. I can use secondary sources to help interpret results seen.	1. I can recognise things change over time, and can ask pertinent questions and suggest reasons for similarities and differences over time  2. I can ask questions surrounding patterns I have found in data as to why something I have observed has happened.  3.I can develop and use keys and other information to classify and describe objects in ways to help answer questions  4. I can take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate  5. I can use secondary sources to help interpret results seen.
Questions	I can ask simple questions	I can ask simple questions and recognise that they can be answered in different ways  I can use my observations and ideas to suggest answers to questions  I can communicate my ideas, what I can do and what I can find out in different ways	I can ask simple questions and recognise that they can be answered in different ways including use of scientific language from the national curriculum  I can communicate my ideas, what I can do and what I can find out in different ways	I can ask relevant questions to answer my questions in different ways using scientific language from the national curriculum.  I can ask questions surrounding patterns I have found in data.	I can ask relevant questions and use different types of scientific enquiries to answer them using scientific language from the national curriculum  I can ask questions surrounding patterns I have found in data.  I can develop a deeper understanding through talk, asking questions about scientific phenomena, analysing functions and interactions more systematically.	I can plan different types of scientific enquiries to answer questions, including recognising variables where necessary  I can ask questions surrounding patterns I have found in data as to why something I have observed has happened.  I can observe over time, asking pertinent questions about similarities and differences.	I can plan different types of scientific enquiries to answer my own or others' questions, including recognising and controlling variables where necessary  I can recognise things change over time, and can ask pertinent questions and suggest reasons for similarities and differences over time
Using scientific equipment	I can use magnifying glasses to look at objects in more detail  I can measure out ingredients using scientific and mathematic equipment	I can use simple equipment to observe closely I can use hand lenses and egg timers	I can use simple equipment to observe closely including changes over time I can ask my own questions about what I notice I can use hand lenses and egg timers	I can set up simple practical enquiries, comparative and fair tests  I can make systematic and careful observations over time  I can take measurements using standard units, using a range of equipment.  I can set up simple practical enquiries, comparative and fair tests	I can set up simple practical enquiries, comparative and fair tests  I can take measurements, using a range of scientific equipment, with increasing accuracy and precision.	I can make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	I can take measurements, using a range of scientific equipment, including thermometers and data loggers, with increasing accuracy and precision, taking repeat readings when appropriate  I can make my own decisions and select the most appropriate type of scientific enquiry to use and recognise how to set up a comparative and fair test.
Recording data	I can record observations in ways that are important and meaningful to me.	I can gather and record data to help in answering questions  I can use simple scientific language such as: with help	I can gather and record data to help in answering questions including from secondary sources of information	I can gather, record, classify and present data in a variety of ways.  I can record findings using simple scientific language, drawings,	I can gather, record, classify and present data in a variety of ways to help in answering questions  I can record findings using simple scientific language, drawings,	I can record data and results using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs  I can use test results to set up further comparative and fair tests	I can record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs

		labelled diagrams, keys, bar charts and tables	, labelled diagrams, keys, bar charts, and tables		I can use test results to make predictions to set up further comparative and fair tests
Reporting on findings		I can report on findings from enquiries, using presentations of results and conclusions  I can use results to draw simple conclusions.  I can use secondary sources with adult support to help clarify results seen.	I can report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions  I can use results to draw simple conclusions, make predictions for new values and suggest improvements.  I can use secondary sources with adult support to help clarify results seen.  I can classify, group and present data in a series of ways to help in answering questions	I can report and present findings from enquiries in oral and written forms such as displays and other presentations.  I can use results to draw more complex conclusions, make predictions for new values and suggest improvements.  I can use secondary sources to help interpret results seen.  I can classify, group and present data in a series of ways to help in answering questions	I can report and present 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  I can use results to draw more complex conclusions, make predictions for new values and suggest improvements and raise further questions.  I can use secondary sources to help interpret results seen.  I can develop and use keys and other information to classify and describe objects in ways to help answer questions
Using scientific evidence		I can identify differences, similaritie or changes related to simple scientific ideas and processes I can use straightforward scientific evidence to answer questions or to support my findings	or changes related to simple scientific ideas and processes I can use straightforward scientific	I can identify scientific evidence that has been used to support or refute ideas or arguments	I can justify and evaluate my own and other people's scientific ideas related to topics in the national curriculum (including ideas that have changed over time), using evidence from a range of sources

#### PROGRESSION OF VOCABULARY, SKILLS AND KNOWLEDGE

SUBJECT: SCIENCE

Knowledge	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Progression	LIIS	I Gai I	l Gai Z	i cai 3	I Gai 4	l ear 3	I Gai U
Animals including humans	I know that different animals have different body parts (some have no legs, some have lots)  I know that different animals like different foods and live in difference places  I know that some animals are big and some animals are small  I know that butterflies do not start out looking like butterflies (undergo metamorphosis)  I know how to talk about different places an animals might live  I know that some animals hibernate  I know that some animals are adapted to live under the sea and that humans are adapted to live on land  I know that if I wash my hands then that will kill off germs  I know about the importance of a healthy diet  I know I cannot eat unhealthy foods like chips and pizza everyday and I need a variety of food  I know about the importance of a healthy exercise regime  I know that exercise is good for my body.	I know how to describe and compare observable features of animals from a range of groups I know how to group animals according to what they eat  I know how to identify and name a variety of common animals including fish, amphibians, reptiles, mammals and birds  I know how to identify and name a variety of common animals that are carnivores, herbivores and omnivores  I know how to name and locate parts of the human body, including those related to the senses  I know how to describe and compare observable features of animals from a range of groups  I know how to describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)  I know how to identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense  I know how to take care of animals taken from their habitat and understand the need to return them safely to their homes  I know how to use the vocabulary and identify: head, neck, arms, elbows, legs, knees, face, ears, eyes, hair, mouth and teeth	I know how to name and locate parts of the human body, including those related to the senses and describe them  I know how to describe the basic needs of animals for survival and the main changes as offspring from young animals, including humans, grow into adults  I know how to group animals according to what they eat, describe how animals get their food from other animals and/or plants, and use simple food chains to describe these relationships  I know how to describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene  I know how to describe the basic needs of animals, including humans, for survival (water, food and air)  Vocab: egg, chick, chicken; egg, caterpillar, pupa, butterfly; spawn, tadpole, frog; lamb, sheep  I know how to describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene  I know how to describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene  I know how to describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	I know how to 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  I know how to identify that humans and some other animals have skeletons and muscles for support, protection and movement	I know how to describe the simple functions of the basic parts of the digestive system in humans  I know how to identify the different types of teeth in humans and their simple functions  I know how to construct and interpret a variety of food chains, identifying producers, predators and prey	I know how to describe the changes as humans develop to old age	I know how to identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood  I know how to recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function  I know how to describe the ways in which nutrients and water are transported within animals, including humans
Everyday Materials	I know that objects are made from different materials  I know about similarities and differences in relation to places, objects, materials and living things  I know how to about the features of my immediate environment and how environments might vary from one another	I know how to distinguish objects from materials, describe their properties, identify and group everyday materials  I know how to distinguish between an object and the material from which it is made  I know how to identify and name a variety of everyday materials,	I know how to distinguish objects from materials, describe their properties, identify and group everyday materials and compare their suitability for different uses  I know how to identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses			I know how to 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  I know how to recognise that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution	

	I know how to make observations of animals and plants and explain why some things occur, and talk about changes	including wood, plastic, glass, metal, water, and rock  I know how to describe the simple physical properties of a variety of everyday materials  I know how to compare and group together a variety of everyday materials on the basis of their simple physical properties  Vocabulary  Materials: hard/soft; stretchy/stiff; shiny/dull; rough/smooth; bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent. brick, paper, fabrics, elastic, foil.	I know how to describe how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching			I know how to use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating  I know how to give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic  I know how to demonstrate that dissolving, mixing and changes of state are reversible changes  I know how to 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	
Light				I know how to recognise that he/she needs light in order to see things and that dark is the absence of light  I know how to notice that light is reflected from surfaces  I know how to recognise that light from the sun can be dangerous and that there are ways to protect eyes  I know how to find patterns in the way that the size of shadows change  I know that it is not safe to look directly at the sun, even when wearing dark glasses			I know how to recognise that light appears to travel in straight lines  I know how to 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  I know how to 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  I know how to use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them
Magnets	I know that magnets are 'sticky' without being sticky.  I know magnets stick to certain materials (metals)  I know how to find an object which a magnet will stick to			I know how to compare how things move on different surfaces  I know how to notice that some forces need contact between two objects, but magnetic forces can act at a distance  I know how to 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  I know how to describe magnets as having two poles			
Electricity					I know how to identify common appliances that run on electricity  I know how to construct a simple series electrical circuit, identifying and naming its basic parts,		I know how to associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit

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					including cells, wires, bulbs,		I know how to compare and give
					switches and buzzers Identify		reasons for variations in how
					whether or not a lamp will light in a		components function, including the
					simple series circuit, based on		brightness of bulbs, the loudness of
					•		
					whether or not the lamp is part of a		buzzers and the on/off position of
					complete loop with a battery		switches
					I know how to recognise that a		I know how to use recognised
					switch opens and closes a circuit		symbols when representing a simple
					and associate this with whether or		circuit in a diagram
							Circuit in a diagram
					not a lamp lights in a simple series		
					circuit		
					I know how to recognise some		
					common conductors and insulators,		
					and associate metals with being		
					_		
					good conductors		
	Harris and the state of the sta						
	I know how to identify that it is Autumn,	I know how to observe and					
1	Winter, Summer and Spring	describe changes across the four					
		seasons					
	I know how to identify seasonal colours						
Seasonal	,	I know how to observe and describe					
	I know that lots of new life begins in the	weather associated with the					
changes	Spring time						
	Spring time	seasons and how day length varies					
	Livery have to about a supremiete elethics						
	I know how to choose appropriate clothing	I know that it is not safe to look directly at the sun, even when wearing dark glasses.					
	for the seasons	Sun, even when wearing dark glasses.					
	I know that plants need sun to grow	I know how to identify and name a	I know how to describe the basic	I know how to identify and describe			
		variety of common wild and garden	needs of plants for survival and the	the functions of different parts of			
	I know that plants need water to grow	plants, including deciduous and	impact of changing these and the	flowering plants: roots, stem/trunk,			
		evergreen trees	main changes as seeds and bulbs	leaves and flowers			
	I know that most plants need soil and		grow into mature plants				
	nutrients to grow	I know how to identify and describe	grow into mataro planto	I know how to explore the			
	numerita to grow	•		I KNOW NOW to explore the			
ř l			I longer to be a controlled and a second also a controlled	manuficant and a landa faulticanul			
		the basic structure of a variety of	I know how to observe and describe	requirements of plants for life and			
	I know some plants grow from seeds	the basic structure of a variety of common flowering plants, including	I know how to observe and describe how seeds and bulbs grow into mature	requirements of plants for life and growth (air, light, water, nutrients			
	I know some plants grow from seeds			· ·			
Diamée	I know some plants grow from seeds	common flowering plants, including	how seeds and bulbs grow into mature	growth (air, light, water, nutrients from soil, and room to grow) and			
Plants	I know some plants grow from seeds	common flowering plants, including trees	how seeds and bulbs grow into mature plants	growth (air, light, water, nutrients			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a	how seeds and bulbs grow into mature plants  I know how to find out and describe how	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and	how seeds and bulbs grow into mature plants  I know how to find out and describe how	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth),	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of			
Plants	I know some plants grow from seeds	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth),	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed			
Plants	I know some plants grow from seeds  I know about similarities and differences in	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth),	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed	I know how to recognise that living	I know how to describe the differences	I know how to describe how living
Plants	I know about similarities and differences in	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed			· ·
Plants		common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival  I know how to identify whether things are alive, dead or have never	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed	things can be grouped in a variety	in the life cycles of a mammal, an	things are classified into broad groups
Plants	I know about similarities and differences in relation to living things and their habitats	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed			things are classified into broad groups according to common observable
Plants	I know about similarities and differences in relation to living things and their habitats I know how to talk about the features of my	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival  I know how to identify whether things are alive, dead or have never lived	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed	things can be grouped in a variety of ways	in the life cycles of a mammal, an amphibian, an insect and a bird	things are classified into broad groups according to common observable characteristics and based on
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Living things	I know about similarities and differences in relation to living things and their habitats I know how to talk about the features of my own immediate environment and how environments might vary from one another	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival  I know how to identify whether things are alive, dead or have never lived  I know how to explore and compare the differences between things that are living, dead, and things that have never	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed	things can be grouped in a variety of ways  I know how to explore and use classification keys to help group, identify and name a variety of living	in the life cycles of a mammal, an amphibian, an insect and a bird  I know how to describe the life process	things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
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Living things and their	I know about similarities and differences in relation to living things and their habitats I know how to talk about the features of my own immediate environment and how environments might vary from one another	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival  I know how to identify whether things are alive, dead or have never lived  I know how to explore and compare the differences between things that are living, dead, and things that have never	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed	things can be grouped in a variety of ways  I know how to explore and use classification keys to help group, identify and name a variety of living	in the life cycles of a mammal, an amphibian, an insect and a bird  I know how to describe the life process of reproduction in some plants and	things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals
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Living things and their	I know about similarities and differences in relation to living things and their habitats  I know how to talk about the features of my own immediate environment and how environments might vary from one another  I know how to make observations of animals and plants and explain why some things	common flowering plants, including trees  I know how to identify and name a variety of common wild and garden plants, including deciduous and evergreen trees  Vocab  Plants: leaves, flowers (blossom), petals, fruit,	how seeds and bulbs grow into mature plants  I know how to find out and describe how plants need water, light and a suitable temperature to grow and stay healthy  Vocabulary:  bulbs. germination, reproduction (questions that recognise growth), growth, survival  I know how to identify whether things are alive, dead or have never lived  I know how to explore and compare the differences between things that are living, dead, and things that have never been alive  I know how to name different plants	growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant  I know how to investigate the way in which water is transported within plants  I know how to explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed	things can be grouped in a variety of ways  I know how to explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment	in the life cycles of a mammal, an amphibian, an insect and a bird  I know how to describe the life process of reproduction in some plants and	things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants and animals  I know how to give reasons for
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		habitats provide for the basic needs of			
		different kinds of animals and plants,			
		and how they depend on each other			
		I know how to identify and name a			
		variety of plants and animals in their			
		habitats, including micro-habitats			
		Trabitato, inordaning mioro nabitato			
		I know how to 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			
		Vocab:			
		Habitat: A natural environment or			
		home of a variety of plants and animals			
		' '			
		Micro-habitat: A very small habitat, for			
		example for woodlice under stones,			
		logs or leaf litter			
		logo or loar main			
			I know how to compare and group		
			together different kinds of rocks on		
			the basis of their appearance and		
			simple physical properties		
			l.,		
			I know how to describe in simple		
Rocks			terms how fossils are formed when		
			things that have lived are trapped		
			within rock		
			I know how to recognise that soils		
			are made from rocks and organic		
			matter.		
			I know how to compare how things	I know how to explain that unsupported	
			move on different surfaces	objects fall towards the Earth because	
				of the force of gravity acting between	
			I know how to notice that some	the Earth and the falling object	
			forces need contact between two		
			objects, but magnetic forces can act	I know how to identify the effects of air	
			at a distance	resistance, water resistance and	
			at a distance		
			I know how to compare and grave	friction, that act between moving	
			I know how to compare and group	surfaces	
			together a variety of everyday		
Forces			materials on the basis of whether	I know how to recognise that some	
. 5. 555			they are attracted to a magnet, and	mechanisms, including levers, pulleys	
			identify some magnetic materials	and gears, allow a smaller force to have	
				a greater effect	
			I know how to describe magnets as		
			having two poles	I know how to describe the differences	
				in the life cycles of a mammal, an	
			I know how to predict whether two	amphibian, an insect and a bird	
			magnets will attract or repel each	. , , , , , , , , , , , , , , , , , , ,	
			other, depending on which poles are	I know how to describe the life process	
			facing	of reproduction in some plants and	
			1.5519	animals	
				aiaio	

		I know how to identify how sounds are made, associating some of		
		them with something vibrating  I know how to recognise that		
		vibrations from sounds travel		
		through a medium to the ear		
		I know how to find patterns between		
Cound		the pitch of a sound and features of		
Sound		the object that produced it		
		I know how to find patterns between		
		the volume of a sound and the		
		strength of the vibrations that		
		produced it		
		I know how to recognise that		
		sounds get fainter as the distance from the sound source increases		
		I know how to compare and group materials together, according to		
		whether they are solids, liquids or		
		gases		
		I know how to observe that some		
		materials change state when they		
States of		are heated or cooled, and measure		
matter		or research the temperature at which this happens in degrees		
		Celsius (°C)		
		I know how to identify the part		
		played by evaporation and		
		condensation in the water cycle and		
		associate the rate of evaporation		
		with temperature		
			I know how to describe the movement	
			of the Earth, and other planets, relative to the Sun in the solar system	
			to the Guit in the colar system	
			I know how to describe the movement	
			of the Moon relative to the Earth	
			I know how to describe the Sun, Earth	
			and Moon as approximately spherical	
			bodies	
Earth and			I know how to use the idea of the	
Space			Earth's rotation to explain day and night and the apparent movement of the sun	
			across the sky	
			I know that the Sun is a star at the	
			centre of our solar system and that it	
			has eight planets: Mercury, Venus,	
			Earth, Mars, Jupiter, Saturn, Uranus and Neptune (Pluto was reclassified as	
			a 'dwarf planet' in 2006).	
			I know that a moon is a celestial body	
			that orbits a planet (Earth has one	

				moon; Jupiter has four large moons and	
				numerous smaller ones).	
Evolution and inheritance					I know how to recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago  I know how to recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents  I know how to identify how animals and plants are adapted to suit their environment in different ways and that
					adaptation may lead to evolution
		Pupils might find out about people who have developed useful new materials, for example John Dunlop, Charles Macintosh or John McAdam.		They should find out about the work of naturalists and animal behaviourists, for example, David Attenborough and Jane Goodall	Pupils might find out about the significance of the work of scientists such as Carl Linnaeus, a pioneer of classification
Famous				They should find out about how chemists create new materials, for example, Spencer Silver, who invented the glue for sticky notes or Ruth Benerito, who invented wrinkle-free cotton.	Pupils might find out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution.
Scientists				Pupils should find out about the way that ideas about the solar system have developed, understanding how the geocentric model of the solar system gave way to the heliocentric model by considering the work of scientists such as Ptolemy, Alhazen and Copernicus.	
				Pupils might find out how scientists, for example, Galileo Galilei and Isaac Newton helped to develop the theory of gravitation.	