

Science Progression map

Year group	Working Scientifically	Plants	Animals, including humans	Everyday Materials	Seasonal Changes	Forces and Magnets	Electricity	Light and Sound	Living things and their Habitats	Rocks	Earth and Space	Evolution and inheritanc e
Nursery		Key knowledge: *Know how to plant seeds and care for growing plants *Know the key features of the life cycle of a plant Vocabulary: Tree, Leaf, Flower, Stem, Seed, Plant, Grow, Water	Key knowledge: *Know 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. Vocabulary: Egg, Hatch, Chick, Chicken,	Key knowledge: *Use all their senses in hands-on exploration of natural materials. *Explore collections of materials with similar and/or different properties. *Talk about the differences between materials and changes they notice Vocabulary: Material, Wood, Glass Paper, Hard, Soft								



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



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



	DK1: Identify and	Кеу	Key knowledge:	Key	Key				
	classify different	knowledge:	*Identify, name,	knowledge:	knowledge:				
	food based on the	*Know a	draw and label the	*Know the	*Know the				
	senses	variety of	basic parts of the	difference	four				
	DK1: Identify and	common wild	human body	between an	seasons				
	<mark>classify materials</mark>	and garden	*Know which body	object and the	* Know				
	based on their	plants	parts related to	material from	what the				
	properties	*Know the	each of the 5 senses	which it is	weather is				
	DK1: Identify and	basic		made	like in				
	<mark>classify animals</mark>	structure of a	Vocabulary: Head,	*Identify and	different				
	DK1: Identify and	variety of	Neck, Arms, Elbow,	name a variety	seasons				
	<mark>classify plants and</mark>	flowering	Legs, Knees, Face,	of everyday	*Know how				
	trees	plants a trees	Ears, Eyes, Nose,	materials	day length				
	<mark>DK1: Perform</mark>	*Know	Hair, Mouth, Teeth,	*Know about	varies				
	<mark>simple test</mark>	examples of	Senses, Taste, Touch, Smell, Hear,	the properties	Vocabulary				
	DK1: Observe	different trees	See	of some	: Summer				
	changes across	and identify	366	everyday	Spring				
Year 1	the seasons	what makes	Key knowledge:	materials	Autumn				
ar 1	DK1: Observe	them	*Know a variety of	*Know a variety	Winter				
	changes over time	different	common animals	of everyday	Seasons				
	DK2: Gathering	Vocabulary:		materials based	Climate				
	data using	Plants, Leaf	*Know a variety of	on their	Day Night				
	apparatus	Flowers,	common animals	properties	Weather				
	DK2: Gather and	Stem, Roots	based on what they	Vocabulary:	Compare				
	record data to	Deciduous,	eat	Wood, Plastic,	Record				
	answer simple	Evergreen	*Know the structure	Glass, Paper,	Observe				
	questions	Trunk, Branch	of a variety of	Water, Metal,	Temperatur				
	DK3: Notice	Petal, Fruit,	common animals	Rock, Hard,	e, Dawn,				
	patterns across	Bulb, Seed,	(Can all birds fly? Do	Soft, Bendy,	Dusk,				
	the seasons DK3: Notice	Bramble,	all mammals have	Rough, Smooth	Months, Solstice,				
	patterns across a	Dandelion,	2/4 legs?)						
	group of animals	Daisy,	Vocabulary: Fish,		Sun, Day, Moon,				
	group of animals	Buttercup,	Amphibian, Reptiles,		Light, Dark				
		Bluebells,	Birds, Mammals,						
		Rose,	Herbivore,						
		Sunflower,	Carnivore,						



Peonies,	Omnivore, Warm					
Lavender, Fir,	Blooded, Cold					
Chestnut,	Blooded					
Oak, Pine,						
Cedar						



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	DK1: Identify and	Кеу	Key knowledge:	Кеу			Кеу		
	<mark>classify materials</mark>	knowledge:	*Know how animals	knowledge:			knowledge:		
	based on their	*Know how	and humans change	*Know how to			*Know		
	properties	seeds and	as they mature	select an			what all		
	DK1: Identify and	bulbs grow	*Know what	appropriate			living things		
	<mark>classify plants</mark>	into mature	animals need to stay	material for a			have in		
	DK1: Identify and	plants	alive	given job			common		
	classify food	*Know what	*Know the	*Know what			*Know		
	groups	plants need to	importance of	happens when			where		
	DK1: Perform a	grow and stay	exercise and need	materials are			plants and		
	simple test	healthy	to eat different	squashed, bent,			animals live		
	DK1: Observe	Vocabulary:	types of food	twisted or			in the local		
	changes over time	Seeds, Bulbs,	Vocabulary:	stretched			environmen		
	DK2: Gather and	Water, Light,	Survival, Water, Air,	Vocabulary:			t		
	record data to	Suitable	Food, Adult, Baby,	Hard, Soft,			*Know		
Year	answer simple	temperature,	Offspring, Kitten,	Stretchy, Stiff,			about food		
ar 2	questions	Grow,	Calf, Puppy,	Shiny, Dull,			chains		
10	DK3: Ask simple	Healthy,	Exercise, Hygiene	Rough, Smooth,			*Know how		
	questions about	Germinate,		Bendy,			plants		
	the world around	Decompose		Waterproof,			thrive and		
	them			Absorbent,			are healthy		
				Opaque,			Vocabulary		
				Transparent			: Living,		
				Brick, Paper,			Dead,		
				Fabrics,			Habitat,		
				Squashing,			Energy,		
				Bending,			Food chain,		
				Twisting,			Predator,		
				Stretching			Prey,		
				Elastic, Foil			Woodland,		
				,			Pond,		
							Desert		
L							2000.0		



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	DK1: To group	Кеу	Key knowledge:		Кеу	Кеу	Кеу	
	and classify	knowledge:	* Know about the		knowledge:	knowledge:	knowledge:	
	<mark>different food</mark>	*Know the	food pyramid and		*Know how	*Know that	*Know how	
	groups	functions of	the effect the		things move	we need light	rocks are	
	DK1: Observe	different parts	different foods have		on different	to see	formed	
	changes over time	of flowering	on our body		surfaces	*Know that	*Know how	
	DK1:	plants	*Know about		Know what	darkness is	to identify,	
	<mark>To recognise</mark>	*Know the	nutrients, minerals,		friction is and	the absence	group and	
	when a simple fair	things that	carbohydrates,		how it affects	of light	classify	
	<mark>test is necessary</mark>	plants need to	proteins and		moving	*Know how	different	
	<mark>and help to</mark>	grow	vitamins		objects	shadows are	kinds of	
	<mark>decide how to set</mark>	*Know leaves	* Know animals and		*Know what	formed	rocks	
	<mark>it up</mark>	are essential	humans cannot		a contact	*Know that	*Know how	
	DK1: To begin to	in helping it to	make their own		force is	light is	fossils are	
	<mark>compare based</mark>	produce food	food		*Know what	reflected	formed	
	<mark>on test results</mark>	*Know how	*Know the purpose		a non-contact	from surfaces	when living	
	DK2: Gather and	water is	of the skeleton		force	*Know that	things have	
ž	record data to	transported	*Know the purpose		*Know some	the size of	been	
Year	answer simple	within plants	of muscles		magnetic	shadows	trapped	
ω	questions	*Know the life			materials	change	inside them	
	DK3: Ask simple	cycle of			*Know	Vocabulary:	*Know that	
	questions about	flowering	Vocabulary:		magnets have	Light,	soils are	
	the world around	plants,	Movement,		two poles	Shadows,	made from	
	them	including	Muscles, Bones,		and these	Mirror,	organic	
	DK4: Recognise	pollination	Skull, Nutrition,		attract or	Reflective,	matter.	
	the different	Vocabulary:	Skeletons,		repel each	Dark,	Vocabulary:	
	secondary	Air, Light,			other.	Reflection,	Fossils,	
	sources may be	Water,			Vocabulary:	Light Source,	Soils,	
	beneficial to their	Nutrients,			Magnetic,	Cast	Sandstone,	
	research	Soil,			Force,		Granite,	
		Reproduction,			Contact,		Marble,	
		Transportatio			Attract,		Pumice,	
		n, Dispersal,			Repel,		Crystals,	
		Pollination,			Friction,		Sedimentar	
		Flower.			Poles, Push,		у,	
					Pull		Metamorph	
							ic, Igneous,	



					Absorbent/	
					Porous,	
					Durable,	
					Permeable,	
					Impermeabl	
					е	



Vor DX1: To group things Key kowledge: "Know what digestion is Key kowledge: "Know what "Know what "Know what Key kowledge: knowledge: "Know what Key kowledge: knowledge: "Know what y KL: To group, classify and compare solids, compare solids, fuguds, and gaess the facts of deforestation DK1: Explore the effects of deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deforestation deffects of deforestation defore							1			
Mings digestion is "Know what "Know which "Know the different optics" withow withow "Know that appliances MSL: To group, compare solids, indigestive system "Know what "Know what "Know what use electricity made, components can be DKI: Explore the effects of deformance types of teeth in solids, liquids "Know what "Know what use something to use to u										
DK1: To group, tlassify and compare solids, liquids, and gases indigestive system different beffects of befrestation DK1: Conduct conduct and befrestation DK1: Conduct conduct and befrestation DK1: Conduct conduct and befrestation DK1: Conduct conduct and befrestation DK1: Conduct conduct and befrestation DK1: Conduct conduct and befrestation DK1: Conduct conduct and befrestation b		and classify living	*Know what	-			knowledge:	knowledge:		
VerClassify and compare solids, liquids, and gases afficts of deforestation bX1: Explore the deforestationparts of the digestive system 'matter' is 'matter' is 		<mark>things</mark>	digestion is	*Know what		*Know which	*Know how	*Know that		
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Induids, and gases DK1: Explore the effects of deforestation DK1: Conduct simple functions fair tests*Know the different types of teeth in solids, liquids solids, liquids solids, liquids solids, liquids solids, liquids solids, liquids some materials of dod chains. Vocabulary: Mouth, Desophagus, fair testsuse some materials change state when they are when they are change stateuse components with vibrating with when when they are when they are when they are cooleduse components with wheta with wheta when they are change statesome materials change state when they are cooleduse construct a with wheta with wheta when they are cooleduse construct a with wheta with they are cooleduse construct a with wheta with whether with whe							made,	can be		
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effects of deforestationhumans and their simple functionsand gasses are *Know thatto construct a some materials change statesome thing vibrating*Know how to useDK1: Conduct food chains.*Know what food chains.some materials change statewhen they are when they are to cobedwhen they are heated or circuit and through aidentify and and closes an keys to help group, circuit and through aDK1: Observe the changes withinOesophagus, Stomach, Small*Knowcooled with when they are processesadsisticationDK1: Take accurate using standard utits, using a right and change of actataIntestine, Large processeswater cyclestimate such as such as cooledwith whether water cycleDK1: Take accurate using standard utits, using a right and change attaIncisor, Molarsuch as such as condensation*Know what such as cooledliving thingsDK2: Standard utits, using a right and a change attaIncisor, Molarsuch as condensation*Know that condensation*Know that conductorsDK2: Analyse the dataGas Functions, Particles, andGas Function, Particles, Freezing,Sound and Bulks, fainter as the Switches, Bulks, fainter as the Switches, such as circuit*Know that distanceDK2: Analyse the dataGas Freezing,Condensation, Particles, Temperature, Freezing,Switches, Bulks, fainter as the Bulks, fainter as the Switches, Bulks, fainter as the switche			*Know the different			use	some of them	a variety of		
deforestation DK1: Conduct comparative and fait testssimple functions "Know avariety of food chains."Know that some materials change state when they are to cobed cooledcircuitvibrating *Know that and closes a circuit and through a identify and associate this with whetherto use *Know that classificatioDK1: Take changes within the water cycle DK1: Take accurateTongue, Teeth, Ocesophagus, Stomach, Small Intestine, Large involved in the water cycle*Know the water cycle Stomach, Small Intestine, Large Incisor, Molar*Know *Know with whetherthrough a identify and anascelate this with whether or not a lamp the water cycle*Know water cycleDK1: Take units, using a range of betatesIntestine, Large Carnivore, Canine, Buth is to coledprocesses such as condensation*Know what water cycleliving things stomach such as condensationDK2: Analyse the data.Carnivore, Canine, Carnivore, Canine, Use tables, bar thars to recordSolid, Liquid, Solid, Liquid, Condensation, Particles, Temperature, Temperature, Temperature, Temperature, Temperature,circuit such as circuitthere is a stomath sound and sound and sou		DK1: Explore the	types of teeth in	solids, liquids		components	with	ways		
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DK2: Analyse the dataEvaporation, Condensation,Cells, Wires, Bulbs,sounds get fainter as the things.DK2: Gather, record, classifyParticles, Temperature,Switches, Temperature,distanceVocabularyand present dataFreezing,Freezing,Battery,Vocabulary:Vertebrates		charts to record		Solid, Liquid,				pose		
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DK2: Gather, record, classifyParticles,Switches,distanceVocabularyrecord, classifyTemperature,Buzzers,increases.:and present dataFreezing,Battery,Vocabulary:Vertebrates							-	-		
record, classify and present dataTemperature, Freezing,Buzzers, Battery,increases.:Buzzers, Battery,Vocabulary:Vertebrates								-		
and present data Freezing, Freezing, Battery, Vocabulary: Vertebrates								Vocabulary		
						· · · · · · · · · · · · · · · · · · ·		:		
Circuit Values Etch				0,			-			
		in a variety of		Heating,		Circuit,	Volume,	, Fish,		
ways to help in Precipitation Precipitation Series, Vibration, Amphibians				Precipitation		· · · · · · · · · · · · · · · · · · ·				
answering Conductors, Wave, Pitch, , Reptiles,							· · · · · · · · · · · · · · · · · · ·			
questions. Insulators, Tone, Birds,										
DK2: Gather and Brightness Speaker Mammals,						Brightness	Speaker			
record data to Invertebrat		record data to						Invertebrat		



answer simpl	e				es, Snails,		
questions	-				Slugs,		
DK3: Notice					Worms,		
patterns betwe	<mark>en</mark>				Spiders,		
circuits					Insects,		
DK3: Constru	t				Environmen		
and interpret	a				t, Habitats		
variety of foo							
chains	-						
DK3: Investiga	te						
patterns betwe							
the volume of	a						
sound and th							
strength of	-						
vibrations							
DK4: Recognis	e						
the different							
secondary							
sources may b	e						
beneficial to th	eir						
research							



	DK1: Observe the	Key knowledge:	Кеу	Кеу		Кеу	Кеу	
	changes that take	*Know the changes	knowledge:	knowledge:		knowledge:	knowledg	
	place over time	as humans develop	*Know how to	*Know what		*Know the	e:	
	DK1: Observe the	to old age.	compare and	gravity is		differences	*Know	
	life cycle of	*Know how the	group together	*Know what		in the life	how the	
	animals and	human and animal	everyday	air resistance		cycles of	Earth and	
	<mark>plants</mark>	gestation compare	materials based	is and its		different	other	
	DK1: Grouping	Vocabulary: Foetus,	on their	effect		types of	planets	
	and classifying a	Embryo, Womb,	properties,	*Know when		animals	move,	
	range of materials	Gestation, Baby,	including their	friction is		*Know the	relative to	
	<mark>based on their</mark>	Toddler, Teenager,	hardness,	helpful and		life process	the Sun in	
	properties	Elderly, Growth,	solubility,	when it is not		of	the solar	
	DK1: Conduct	Development,	transparency,	Vocabulary:		reproductio	system	
	comparative and	Puberty; Circulatory,	conductivity	Air		n in some	*Know	
	<mark>fair tests</mark>	Heart, Blood	(electrical and	Resistance,		plants and	how the	
	DK1: Compare the	Vessels, Veins,	thermal), and	Water		animals.	Moon	
	<mark>life cycle of</mark>	Arteries,	response to	Resistance,		Vocabulary	moves	
ĭ€	<mark>animals and</mark>	Oxygenated,	magnets	Friction,		: Mammal,	relative to	
Year 5	<mark>plants</mark>	Deoxygenated,	*Know that	Gravity,		Reproducti	the Earth	
б	DK2: Gather,	Valve, Exercise,	some materials	Newton,		on, Insect,	*Know	
	record, classify	Respiration	will dissolve in	Gears,		Amphibian,	that the	
	and present data		liquid to form a	Pulleys,		Bird,	Sun,	
	in a variety of		solution, and	Lever, Force,		Offspring;	Earth, and	
	ways to help in		describe how to	Pivot		Classificatio	Moon are	
	answering		recover a	(Fulcrum)		n,	approxim	
	questions		substance from			Vertebrates	ately	
	DK3: Explore the		a solution			,	spherical	
	effects of friction		*Know how			Invertebrat	bodies	
	<mark>on movement</mark>		mixtures might			es,	*Know	
	and find out how		be separated,			Microorgan	how	
	it slows or stops		including			isms,	Earth's	
	moving objects		through			Amphibians	rotation	
	DK3: Notice		filtering, sieving			, Reptiles,	to explain	
	patterns within		and			Mammals,	day and	
	the gestation		evaporating			Insects	night and	
	periods		*Know about				the	
			the uses of				 apparent	
	1 I		· ·					·



	ou or u dou		movemen
DK4: Recognise	everyday		
the different	materials,		t of the
secondary	including		sun across
sources may be	metals, wood		the sky.
beneficial to their	and plastic		Vocabular
research	*Know that		y : Earth,
	dissolving,		Sun,
	mixing and		Moon,
	changes of		Axis,
	state are		Rotation,
	reversible		Day,
	changes		Night,
	*Know that		Phases of
	some changes		the Moon,
	result in the		star,
	formation of		constellati
	new materials,		on,
	and that this		waxing,
	kind of change		waning,
	is not usually		full, new,
	reversible,		year,
	including		month
	changes		
	associated with		
	burning and the		
	action of acid		
	on bicarbonate		
	of soda.		
	*Know		
	reversible		
	changes,		
	including,		
	evaporating,		
	filtering,		
	sieving, melting		
	and dissolving,		
	recognising		



	that melting									
	and dissolving									
	are different									
	processes.									
	*Know changes									
	that are									
	difficult to									
	reverse, for									
	example,									
	burning, rusting									
	and other									
	reactions, for									
	example,									
	vinegar with									
	bicarbonate of									
	soda.									
	Vocabulary:									
	Hardness,									
	Solubility,									
	Transparent,									
	Opaque,									
	Translucent,									
	Magnetic,									
	Filter,									
	Evaporation,									
	Dissolving,									
	Mixing,									
	Thermal									
	Conductor,									
	Thermal									
	Insulator,									
	Electrical									
	Conductor,									
	Electrical									
	Insulator									
	insultor									
L										



	DK1: Conduct	Key knowledge:	Кеу	Кеу	Кеу		Кеу
	comparative and	*Know the main	knowledge:	knowledge:	knowledge:		knowled
	fair tests	parts of the human	*Know how	-	*Know how		
	DK1: Observe the	circulatory system	the number	*Know that	living things		ge:
	changes that take	*Know the functions	and voltage	light	are		*Know
	place over time	of the heart, blood	<u> </u>	appears to	classified		that
	DK1: Grouping	vessels and blood	of cells used	travel in straight lines *Know that	into broad groups		living
	different living	*Know the impact	in the circuit				things
	things	of diet, exercise,	affects the		according		have
	DK2: Gather,	drugs, and lifestyle	brightness		to common		changed
	record, classify	on the way their	of a lamp or	light travels	observable		over
	and present data	body's function	the volume	in straight	characterist		time and
	in a variety of	*Know the ways in	of a buzzer	lines and	ics and		that
	ways to help in	which nutrients and	*Know	that objects	based on		fossils
	answering	water are	reasons for	are seen because	similarities and		provide
	questions	transported within	variations in				informati
	DK3: Draw	animals, including	how	they give	differences,		on about
Year	conclusions based	humans	components	out or	including		living
ır 6	on data analysis	Manakulanu	function,	reflect light	micro-		-
	DK4: Recognise the different	Vocabulary: Adolescence.	including	-	organisms,		things
	secondary	development,	the	into the eye	plants and animals		that
	sources may be	Diverse, Embryo,	brightness	*Know that	*Know how		inhabited
	beneficial to their	Equipped, Foetus,		we see	to classify		the Earth
	research	Gestation,	of bulbs, the	things	plants and		millions
	rescuren	Generation, Mature,	loudness of	because	animals		of years
		Puberty, Unique,	buzzers and	light travels	based on		ago
		Womb	the on/off	from light	specific		*Know
			position of	sources to	characterist		that
			switches	our eyes or	ics.		living
			*Know how	from light			things
			to use	sources to			produce
			recognised	objects and			offspring
			symbols	then to our			of the
			when	eyes			same
			representin	0,00			kind, but
						I	Kinu, but



			g a simple	*Know that		normally
			circuit in a	light travels		offspring
			diagram	in straight		vary and
				lines to		are not
			Vocabulary:	explain why		identical
			Electrons,	shadows		to their
			Cell, Switch,	have the		parents
			Series,	same shape		*Know
			circuit,	as the		how
			Voltage,	objects that		animals
			Current,	cast them		and
			Simple			plants
			circuit,			are
			Wire,			adapted
			Motor,			to suit
			Conductor,			their
			Component			environ
			s, Amps,			ment in
			Light bulb,			different
			buzzer,			ways and
			battery,			that
			insulator,			adaptati
			symbols,			on may
			resistance			lead to
			resistance			evolution
						CVOIDTION
1						1 C C C C C C C C C C C C C C C C C C C