			Progre	ssion of Skills in	Science		
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working	Finding ways to	Asking simple	Asking simple	Asking relevant	Asking relevant	Planning	Planning
Scientifically	solve problems	questions and	questions and	questions and	questions and	different types	different types
		recognising	recognising that	using different	using different	of scientific	of scientific
		that they can	they can be	types of	types of	enquiries to	enquiries to
	Making	be answered	answered in	scientific	scientific	answer	answer
	predictions	in different	different ways	enquiries to	enquiries to	questions,	questions,
		ways		answer them	answer them	including	including
	Testing their ideas		Observing			recognising	recognising
		Observing	closely, using	Setting up	Setting up	and controlling	and controlling
	Developing ideas of	closely, using	simple equipment	simple	simple	variables where	variables where
	ruping, sequences,	simple		practical	practical	necessary	necessary
	use and effect	equipment	Performing	enquiries,	enquiries,		
			simple tests	comparative	comparative	Taking	Taking
		Performing		and fair tests	and fair tests	measurements,	measurements,
		simple tests	Identifying and			using a range	using a range
			classifying	Making	Making	of scientific	of scientific
	anning, making	Identifying		systematic and	systematic and	equipment,	equipment,
	cisions about how	and	Using their	careful	careful	with increasing	with increasing
	approach a task,	classifying	observations and	observations	observations	accuracy and	accuracy and
	ve a problem and		ideas to suggest	and, where	and, where	precision,	precision,
	ich a goal	Using their	answers to	appropriate,	appropriate,	taking repeat	taking repeat
	recking how well	observations	questions	taking accurate	taking accurate	readings when	readings when
	eir activities are	and ideas to		measurements	measurements	appropriate	appropriate
	ing	suggest	Gathering and	using standard	using standard		
	ranging strategy	answers to	recording data to	units, using a	units, using a	Recording data	Recording data
	needed	questions	help in answering	range of	range of	and results of	and results of
	eviewing how well		questions	equipment,	equipment,	increasing	increasing
	e approach worked	Gathering		including	including	complexity	complexity
		and recording		thermometers	thermometers	using scientific	using scientific
		data to help		and data	and data	diagrams and	diagrams and
				loggers	loggers	labels,	labels,

l in an	swering			classification	classification
quest	3	Gathering,	Gathering,	keys, tables,	keys, tables,
		recording,	recording,	scatter graphs,	scatter graphs,
		classifying and	classifying and	bar and line	bar and line
		presenting data	presenting data	graphs	graphs.
		in a variety of	in a variety of	5 1	5 .
		ways to help in	ways to help in	Using test	Using test
		answering	answering	results to make	results to make
		questions	questions	predictions to	predictions to
		ı.	•	set up further	set up further
		Recording	Recording	comparative	comparative
		findings using	findings using	and fair tests	and fair tests
		simple	simple	•	,
		scientific	scientific	Reporting and	Reporting and
		language,	language,	presenting	presenting
		drawings,	drawings,	findings from	findings from
		labelled	labelled	enquiries,	enquiries,
		diagrams,	diagrams,	including	including
		keys, bar	keys, bar	conclusions,	conclusions,
		charts, and	charts, and	causal	causal
		tables	tables	relationships	relationships
				and	and
		Reporting on	Reporting on	explanations of	explanations of
		findings from	findings from	and a degree of	and a degree of
		enquiries,	enquiries,	trust in results,	trust in results,
		including oral	including oral	in oral and	in oral and
		and written	and written	written forms	written forms
		explanations,	explanations,	such as	such as
		displays or	displays or	displays and	displays and
		presentations	presentations	other	other
		of results and	of results and	presentations	presentations
		conclusions	conclusions		

				Using results to	Using results to	Identifying	Identifying
				draw simple	draw simple	scientific	scientific
				conclusions,	conclusions,	evidence that	evidence that
				make	make	has been used	has been used
				predictions for	predictions for	to support or	to support or
				new values,	new values,	refute ideas or	refute ideas or
				•	•	arguments	-
				suggest	suggest	argumenus	arguments
				improvements and raise	improvements and raise		
				further	further		
				questions	questions		
				T. J t' C t	T. J k! C t		
				Identifying	Identifying		
				differences,	differences,		
				similarities or	similarities or		
				changes related	changes related		
				to simple	to simple		
				scientific ideas	scientific ideas		
				and processes	and processes		
				Using	Using		
				straightforward	straightforward		
				scientific	scientific		
				evidence to	evidence to		
				answer	answer		
				questions or to	questions or to		
				support their	support their		
				findings.	findings.		
Animals	They make	Identify and	Notice that	Identify that	Describe the	Describe the	Identify and
Including	observations of	name a	animals,	animals,	simple	changes as	name the main
Humans	animals and	variety of	including	including	functions of the	humans	parts of the
	plants and	common	humans, have	humans, need	basic parts of		human
	explain why some	animals		the right types	the digestive		circulatory

t	hings occur, and alk about hanges	including fish, amphibians, reptiles, birds and mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals	offspring which grow into adults Find out about and describe the basic needs of animals, including humans, for survival (water, food and air) Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene	and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat Identify that humans and some other animals have skeletons and muscles for support, protection and movement	system in humans Identify the different types of teeth in humans and their simple functions Construct and interpret a variety of food chains, identifying producers, predators and prey	develop to old age	system, and describe the functions of the heart, blood vessels and blood Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function Describe the ways in which nutrients and water are transported within animals, including humans
		reptiles, birds and					

		and label the basic parts of the human body and say which part of the body is associated with each sense				
Living Things and their Habitats (Evolution)	Children know about similarities and differences in relation to places, objects, materials and living things They talk about the features of their own immediate environment and how environments might vary from one another		Explore and compare the differences between things that are living, dead, and things that have never been alive Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other	Recognise that living things can be grouped in a variety of ways. Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment Recognise that environments can change and that this can sometimes pose dangers to living things.	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird Describe the life process of reproduction in some plants and animals	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 Give reasons for classifying plants and animals based on specific characteristics

	Identify and name a variety of plants and animals in their habitats, including microhabitats 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	Evolution Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents Identify how animals and plants are adapted to suit their environment in different ways
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							and that adaptation may lead to evolution
Materials	Children know	Distinguish	Identify and	Rocks	States of	Compare and	
and States of	about similarities	between an	compare the	Compare and	Matter	group together	
Matter and	and differences in	object and	suitability of a	group together	Compare and	everyday	
Rocks	relation to places,	the material	variety of	different kinds	group	materials on	
	objects, materials	from which it	everyday	of rocks on the	materials	the basis of	
	and living things	is made	materials,	basis of their	together,	their properties,	
			including wood,	appearance	according to	including their	
	They make	Identify and	metal, plastic,	and simple	whether they	hardness,	
	observations of	name a	glass, brick, rock,	physical	are solids,	solubility,	
	animals and	variety of	paper and	properties	liquids or gases	transparency,	
	plants and	everyday	cardboard for	_		conductivity	
	explain why some	materials,	particular uses	Describe in	Observe that	(electrical and	
	things occur, and	including		simple terms	some materials	thermal), and	
	talk about	wood,	Find out how the	how fossils are	change state	response to	
	changes	plastic, glass,	shapes of solid	formed when	when they are	magnets	
		metal, water,	objects made	things that	heated or		
	They know the	and rock	from some	have lived are	cooled, and	Know that	
	properties of some		materials can be	trapped within	measure or	some materials	
	materials and can	Describe the	changed by	rock	research the	will dissolve in	
	suggest some of	simple	squashing,		temperature at	liquid to form a	
	the purposes they	physical	bending, twisting	Recognise that	which this	solution, and	
	are used for.	properties of	and stretching	soils are made	happens in	describe how to	
		a variety of		from rocks and	degrees Celsius	recover a	
		everyday · · ·		organic matter	(°C)	substance from	
		materials			T	a solution	
					Identify the		
		Compare and			part played by	Use knowledge	
		group			evaporation	of solids,	
		together a			and	liquids and	

 	_	<u> </u>
variety of	condensation	gases to decide
everyday	in the water	how mixtures
materials on	cycle and	might be
the basis of	associate the	separated,
their simple	rate of	including
physical	evaporation	through
properties	with	filtering,
	temperature	sieving and
		evaporating
		Give reasons,
		based on
		evidence from
		comparative
		and fair tests,
		for the
		particular uses
		of everyday
		materials,
		including
		metals, wood
		and plastic
		'
		Demonstrate
		that dissolving,
		mixing and
		changes of
		state are
		reversible
		changes
		.5
		Explain that
		some changes
		Some Situation

Plants	They make observations of animals and plants and explain why some things occur, and talk about changes	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Observe and describe how seeds and bulbs grow into mature plants Find out and describe how plants need water, light and a suitable temperature to	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers Explore the requirements of	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	
	changes	and evergreen	plants need water, light and	flowers		
		Identify and describe the	temperature to grow and stay	requirements of plants for life		
		basic	healthy	and growth		
		structure of a variety of		(air, light, water,		
		common		nutrients from		
		flowering		soil, and room		

		plants,	to grow) and
		including	how they vary
		trees	from plant to
			plant
			Investigate the
			way in which
			water is
			transported
			within plants
			Explore the
			part that
			flowers play in
			the life cycle of
			flowering
			plants,
			including
			pollination,
			seed formation
			and seed
			dispersal
Seasonal	Looks closely at	Observe	
Changes	similarities,	changes	
3	differences,	across the 4	
	patterns and	seasons	
	change – in	Sections	
	relation to the	Observe and	
	four seasons and	describe	
	when different	weather	
	weather occurs	associated	
		with the	
		seasons and	

		how day			
		length varies			
Forces, Earth	Developing ideas		Forces &		Earth & Space
and Space	of grouping,		Magnets		Describe the
	sequences, cause		Compare how	Γ	movement of
	and effect in		things move		the Earth and
	relation to		different surfa		other planets
	movement i.e		notice that so		relative to the
	toys, cars, rough		forces need		sun in the
	surfaces		contact betwe	en l	solar system
	•		2 objects, but	,	
	They know the		magnetic force	es	Describe the
	properties of		can act at a		movement of
	some materials		distance		the moon
	and can suggest				relative to the
	some of the		Observe how		Earth
	purposes they		magnets attr	ıct	
	are used for.		or repel each		Describe the
	They are familiar		other and att		sun, Earth and
	with basic		some materia		moon as
	scientific		and not other	TS.	approximately
	concepts such as				spherical
	floating, sinking,		Compare and		bodies
	experimentation.		group togethe	er a	
			variety of		Use the idea of
			everyday		the Earth's
			materials on		rotation to
			basis of whet	her	explain day
			they are		and night and
			attracted to a	,	the apparent
			magnet, and		movement of
			identify some	,	the sun across
			magnetic		the sky

materials	
	Forces
Describe	Explain that
magnets as	unsupported
having 2 poles	objects fall
	towards the
Predict whether	Earth because
2 magnets will	of the force of
attract or repel	gravity acting
each other,	between the
depending on	Earth and the
which poles are	falling object
facing	
	Identify the
	effects of air
	resistance,
	water
	resistance and
	friction, that
	act between
	moving
	surfaces
	,
	Recognise that
	some
	mechanisms
	including
	levers, pulleys
	and gears
	allow a
	smaller force to
	have a greater
	effect
	9]000

Sound, Light	Light	Sound	Light
and	Recognise that	Identify how	Recognise that
Electricity	they need ligh	t sounds are	light appears
	in order to see	made,	to travel in
	things and the	t associating	straight lines
	dark is the	some of them	
	absence of	with something	Use the idea
	light	vibrating	that light
		Recognise that	travels in
	Notice that	vibrations from	straight lines to
	light is	sounds travel	explain that
	reflected from	through a	objects are
	surfaces	medium to the	seen because
		ear	they give out or
	Recognise that		reflect light into
	light from the	Find patterns	the eye
	sun can be	between the	
	dangerous and		Explain that
	that there are	sound and	we see things
	ways to protect	1 2	because light
	their eyes	object that	travels from
		produced it	light sources to
	Recognise that		our eyes or
	shadows are	Find patterns	from light
	formed when	between the	sources to
	the light from	,	objects and
	light source is	sound and the	then to our
	blocked by an	strength of the	eyes
	opaque object	vibrations that	
		produced it	Use the idea
	Find patterns		that light
	in the way the	3	travels in
	the size of	sounds get	straight lines to

shadows	fainter as the	explain why
change	distance from	shadows have
	the sound	the same shape
	source	as the objects
	increases	that cast them
	Electricity	Electricity
	Identify	Associate the
	common	brightness of a
	appliances that	lamp or the
	run on	volume of a
	electricity	buzzer with the
		number and
	Construct a	voltage of cells
	simple series	used in the
	electrical	circuit
	circuit,	
	identifying and	Compare and
	naming its	give reasons for
	basic parts,	variations in
	including cells,	how
	wires, bulbs,	components
	switches and	function,
	buzzers	including the
		brightness of
	Identify	bulbs, the
	whether or not	loudness of
	a lamp will	buzzers and the
	light in a	on/off position
	simple series	of switches
	circuit, based	
	on whether or	Use recognised
	not the lamp is	symbols when

	part of a	representing a
	complete loop	simple circuit
	with a battery	in a diagram
	Recognise that	
	a switch opens	
	and closes a	
	circuit and	
	associate this	
	with whether	
	or not a lamp	
	lights in a	
	simple series	
	circuit	
	Carcaia	
	Recognise some	
	common	
	conductors and	
	insulators, and	
	associate	
	metals with	
	being good	
	conductors	