			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		
	hanging 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,

	in answering			classification	classification
	questions	Gathering,	Gathering,	keys, tables,	keys, tables,
	1	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	y up to	y up w
		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
		questions	questions	set up further	set up further
		Recording	Recording	comparative	comparative
		findings using	findings using	and fair tests	and fair tests
		simple	simple	uningun vesis	un jui lesis
		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	F	

				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
				suggest	suggest	arguments	arguments
				improvements	improvements		
				and raise	and raise		
				further	further		
				questions	questions		
				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

things occur, and talk about changes	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 including pets) Identify,	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
	Identify, name, draw					

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

Identify and name a variety of plants and animals in their	Evolution Recognise that living things
habitats, including microhabitats	have changed over time and that fossils provide
Describe how animals obtain their food from plants and other	information about living things that inhabited the
animals, using the idea of a simple food	Earth millions of years ago
chain, and identify and name different sources of food	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

							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				a solution	
					Identify the		
		Compare and			part played by	Use knowledge	
		group			evaporation	of solids,	
		together a			and	liquids and	

in the second seco		and the deside
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
		eruportuurig
		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
		Explain that
		some changes

Plants	They make observations of animals and plants and explain why some	Identify and name a variety of common wild and garden	Observe and describe how seeds and bulbs grow into mature plants	Identify and describe the functions of different parts of flowering	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	
Directo		T day tifes and		T I an tife and I	soda	
Plants	observations of animals and plants and	name a variety of common wild	describe how seeds and bulbs grow into mature	describe the functions of different parts		
		common flowering		nutrients from soil, and room		

		plants,	to grow) and		
		including	how they vary		
		trees	from plant to		
		uees			
			plant		
			In motionto the		
			Investigate the		
			way in which		
			water is		
			transported		
			within plants		
			Explore the		
			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			
	differences,	across the 4			
	patterns and	seasons			
	change – in				
	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	movement of	
	and effect in		things move on	the Earth and	
	relation to		different surfaces	other planets	
	movement i.e		notice that some	relative to the	
	toys, cars, rough		forces need	sun in the	
	surfaces		contact between	solar system	
	-		2 objects, but		
	They know the		magnetic forces	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 attract		
	are used for.		or repel each	Describe the	
	They are familiar		other and attract	sun, Earth and	
	with basic		some materials	moon as	
	scientific		and not others	approximately	
	concepts such as			spherical	
	floating, sinking,		Compare and	bodies	
	experimentation.		group together a		
			variety of	Use the idea of	
			everyday	the Earth's	
			materials on the	rotation to	
			basis of whether	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

Sound, Light		Light	Sound	Light
and		Recognise that	Identify how	Recognise that
Electricity		they need light	sounds are	light appears
_		in order to see	made,	to travel in
		things and that	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	pitch of a	Explain that
		that there are	sound and	we see things
		ways to protect	features of the	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 a	volume of a	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 that	Recognise that	travels in
		the size of	sounds get	straight lines to

		shadows	fainter as the	explain why
		change	distance from	shadows have
		5	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

		C	part of a complete loop with a battery	representing a simple circuit in a diagram
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp ights in a simple series circuit	
		c c i c r t t	Recognise some common conductors and nsulators, and associate netals with peing good conductors	