<u>Area</u>	Nursery	Reception	<u>Year 1</u>	Year 2	End of Key Stage	<u>Year 3</u>
					<u>Expectations</u>	
Wor	Understand	Record their	WS1 asking simple	WS1 asking simple questions	KS1 Working Scientifically	WS1 asking relevant
<u>king</u>	'why'	observations by	questions and Pros	KARSE COM ISSUE LEATINGE CAN	Pupils will be taught to use	questions and using different
<u>Scie</u>	questions.	drawing, taking	recognising that	be answered in different ways	the following practical	types of scientific enquiries
<u>ntific</u>		photographs, using	they can be	including use of scientific	scientific methods,	to answer them
<u>ally</u>	Ask questions	sorting rings or boxes	answered in	language from the National	processes and skills:	WS2 setting up simple
	to find out	and on simple tick	different ways	Curriculum.	WS1 asking simple	practical enquiries,
	more and to	sheets.			questions and recognising	comparative and
	check they		WS2 observing	WS2 observing closely, using	that they can be answered	fair tests
	understand	Talk about what they	closely, using simple	simple equipment and	in different ways	WS3 making systematic and
	what has been	are doing and have	equipment and	measurement, including	WS2 observing closely,	careful observations, where
	said to them.	found out using a wide	measurement	changes over time.	using simple equipment	appropriate, taking accurate
		range of vocabulary.			and measurement	measurements using
	Make		WS3 performing	WS3 performing simple	WS3 performing simple	standard units, using a range
	observations	Begin to identify, sort	simple tests	comparative tests	tests	of equipment, including
	using their	and group e.g in terms			WS4 identifying and	thermometers and data
	senses of the	of what something is,	WS4 identifying and	WS4 identify, group and	classifying	loggers
	natural	how it feels etc,	classifying	classify	WS5 using their	WS4 gathering, recording,
	environment				observations and ideas to	classifying and presenting
		C&L, LAU - Listen	WS5 using their	WS5 using their observations	suggest answers to	data in a variety of ways to
	Begin to mark	attentively and respond	observations and	and ideas to suggest answers	questions	help in answering questions
	make or draw	to what they hear with	ideas to suggest	to questions, noticing	WS6 gathering, recording	WS5 recording findings using
	as a way of	relevant questions,	answers to	similarities, differences and	and communicating data	simple scientific language,
	recording	comments and actions	questions	patterns.	and findings to help in	drawings, labelled diagrams,
		when being read to and			answering questions.	keys, bar charts, and tables
	Talk about	during whole class	WS6 gathering and	WS6 gathering, recording and		WS6 reporting on findings
	what they see,	discussions and small	recording data to	communicating data and		from enquiries, including oral
	using a wide	group interactions.	help in answering	findings to help in answering		and written explanations,
	vocabulary.		questions.	questions.		displays or presentations of
		Make comments about				results and conclusions
	Use all their	what they have heard				WS7 using results to draw
	senses in	and ask questions to				simple conclusions, make

hands-on	clarify their		predictions for new values,
exploration of	understanding.		suggest improvements and
natural			raise
materials	C&L, S - Participate in		further questions
	small group, class and		WS8 identifying differences,
	one-to-one discussions,		similarities or changes
	offering their own ideas,		related to simple scientific
	using recently		ideas and processes
	introduced vocabulary.		WS9 using straightforward
			scientific evidence to answer
	Offer explanations for		questions or to support their
	why things might		findings.
	happen, making use of		
	recently introduced		
	vocabulary from stories,		
	non-fiction, rhymes and		
	poems when		
	appropriate.		
	Express their ideas and		
	feelings about their		
	experiences using full		
	sentences, including use		
	of past, present and		
	future tenses and		
	making use of		
	conjunctions, with		
	modelling and support		
	from their teacher		

Λni	Talk about	UTW, NW - Explore the			All identify and name a	AH1 identify that animals,
<u>Ani</u> mals	members of	natural world around	Can identify and	Notice that animals,	AH1 identify and name a variety of common animals	including humans, need the
			*	1	-	
<u>inclu</u>	their	them, making	name a variety of	including humans, have	including fish, amphibians,	right types and amount of
<u>ding</u>	immediate	observations and	common animals	offspring which grow into	reptiles, birds and	nutrition, and that they
<u>hum</u>	family and	drawing pictures of	including fish,	adults	mammals	cannot make their own food;
<u>ans</u>	community.	animals and plants.	amphibians,	Find out about and describe	AH2 identify and name a	they get nutrition from what
			reptiles, birds and	the basic needs of animals,	variety of common animals	they eat
	Name and	Begin to make sense of	mammals.	including humans, for survival	that are carnivores,	
	describe	their own life-story and	 Can identify and 	(water, food and air)	herbivores and omnivores	AH2 identify that humans
	people who	family's history.	name a variety of	Describe the importance for	AH3 describe and	and some animals have
	are familiar to		common animals	humans of exercise, eating the	compare the structure of a	skeletons and muscles for
	them.	Use all their senses in	that are carnivores,	right amounts of different	variety of common animals	support, protection and
		hands-on exploration of	herbivores and	types of food, and hygiene.	(fish, amphibians, reptiles,	movement
	Describe what	natural materials.	omnivores		birds and mammals,	
	they see, hear,		Can describe and		including pets)	
	and feel whilst	Understand the key	compare the		AH4 identify, name, draw	
	outside.	features of the life cycle	structure of a		and label the basic parts of	
		of a plant and an	variety of common		the human body and say	
		animal.	animals (fish,		which part of the body is	
			amphibians,		associated with each sense.	
			reptiles, birds and			
			mammals, including			
			pets).			
			• Can identify,			
			name, draw and			
			label the basic parts			
			of the human body			
			and say which part			
			of the body is			
			associated with			
			each sense			
	1		Cucii scrisc			

Livin g thin gs and their habi tats	Explore the natural world around them. Describe what they see, hear, and feel whilst outside. Begin to understand the need to respect and care for the natural environment and all living things.	UTW, NW - Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class. Use all of their senses in hands-on exploration of natural materials. Recognise some environments that are different to the one in which they live.		 Can explore and compare the differences between things that are living, dead, and things that have never been alive. Can 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 Can identify and name a variety of plants and animals in their habitats, including microhabitats. Can 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. 	the differences between things that are living, dead, and things that have never been alive LH2 identify that most living things live in habitats to which they are suited LH3 describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other LH4 identify and name a variety of plants and animals in their habitats, including micro-habitats LH5 describe how animals obtain their food from plants and other animals LH6 understand a simple food chain, and identify and name different sources of food.	LH1 recognise that living things (including those in the locality) can be grouped in a variety of ways LH2 explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment LH3 recognise that environments can change and that this can sometimes pose dangers to living things.
Ever yday mat erial <u>s</u>	Explore the natural world around them. Describe what they see, hear and feel whilst outside.	Use all their senses in hands-on exploration of natural materials. Explore collections of materials with similar and/or different properties.	 Can distinguish between an object and the material from which it is made Can identify and name a variety of everyday materials, 	 Can identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Can find out how the shapes of solid objects made from 	EM1 distinguish between an object and the material from which it is made EM2 identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock	States of Matter – Year 4 SM1 compare and group materials together, according to whether they are solids, liquids or gases SM2 observe that some materials change state when

Plan	Explore the	UTW, NW - Explore the	Can identify and	Can observe and describe	P1 identify and name a	P1 identify and describe the
ts	natural world	natural world around	name a variety of	how seeds and bulbs grow into	variety of common wild and	functions of different parts of
_	around them.	them, making	common wild and	mature plants	garden plants, including	flowering plants: roots,
		observations and	garden plants,	Can find out and describe	deciduous and evergreen	stem/trunk, leaves and
	Begin to	drawing pictures of	including deciduous	how plants need water, light	trees	flowers
	understand	animals and plants.	and evergreen.	and a suitable temperature to	P2 identify and describe	P2 explore the requirements
	the need to	·	Can identify and	grow and stay healthy	the basic structure of a	of plants for life and growth
	respect and	Plant seeds and, with	describe the basic		variety of common	(air, light, water, nutrients
	care for the	the assistance of adults,	structure of a		flowering plants, including	from soil, and room to
	natural	care for growing plants.	variety of common		trees.	grow) and how they vary
	environment		flowering plants,			from plant to plant
	and all living	Understand the key	including trees.			P3 investigate the way in
	things.	features of the life cycle				which water is transported
		of a plant and an				within plants
		animal.				P4 explore the part that
						flowers play in the life cycle
						of flowering plants, including
						pollination, seed formation
						and seed dispersal.
<u>Seas</u>	Explore the	UTW, NW - Understand	Can observe	N/A	SC1 observe changes	
<u>onal</u>	natural world	some important	changes across the		across the four seasons	
<u>chan</u>	around them	processes and changes	four seasons.		SC2 observe and describe	
ges	and begin to	in the natural world	Can observe and		weather associated with	
	notice change	around them, including	describe weather		the seasons and how day	
	e.g weather	the seasons and	associated with the seasons and how		length varies	
		changing states of				
Rock		matter.	day length varies.			R1 compare and group together
						different kinds of rocks
<u>s</u>						(including those in the locality)
						on the basis of
						appearance and simple physical
						properties

			R2 describe in simple terms how fossils are formed when things that have lived are trapped within rock R3 recognise that soils are made from rocks and organic matter
<u>Light</u>			L1 recognise that they need light in order to see things and that dark is the absence of light
			L2 notice that light is reflected from surfaces L3 recognise that light from the
			sun can be dangerous and that there are ways to protect their eyes L4 recognise that shadows are
			formed when the light from a light source is blocked by a solid object
Fore	Contago and talk about		L5 find patterns in the way that the size of shadows change.
<u>Forc</u> <u>es</u> <u>and</u>	Explore and talk about different forces they can feel.		FM1 compare how things move on different surfaces FM2 notice that some forces
Mag nets			need contact between two objects, but magnetic forces can act at a distance
			FM3 observe how magnets attract or repel each other and attract some materials and not
			others FM4 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 FM5 describe magnets as having two poles FM6 predict whether two magnets will attract or repel each other, depending on which poles are facing.
<u>Cha</u>	Experience	UTW, NW - Understand		
nges	some changes	some important		
<u>of</u>	of state e.g	processes and changes		
<u>Stat</u>	baking, ice.	in the natural world		
<u>e</u>		around them, including		
		the seasons and		
		changing states of		
		matter.		