

Strand Unit of study	EYFS	Year 1/2	Year 3/4	Year 5/6	
Biology					
Substantive Knowledge Their Habitats	Can name some plants and animals. Can explore habitats and know where some animals live. Can compare and describe plants and animals.	Know common plants and trees (plants) Identify and name common animals (animals) Know herbivore, carnivore and omnivore (animals) Describe and compare variety of animals (animals) Can find a range of items which are dead, living and never been alive. Know what a habitat and micro habitat is and identify animals which live in different habitats. Can talk about features of animals and plants and how they are suited to live in particular habitats. Can construct a simple food chain Can identify different sources of food and understand where food comes from	Can name living things in a range of habitats, giving key features that helped identify them. Can give examples of how an environment might change both naturally and due to human impact. Explain how changes in environment can be dangerous to animals and lead to extinction. Know that some animals hibernate.	Describe the lifecycles of mammals, amphibians and insects using diagrams. Can describe similarities and differences between them. Understand the term reproduction in plants and animals. Can give examples in the five vertebrate groups and some in the invertebrate group. Can give key characteristics of these groups. Can give examples of flowering and non-flowering plants. Can identify unknown plants using ID and classification charts. Can explain why animals belong to groups. Know that Carl Linnaeus classify plants and animals.	



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Plants	Make	Can name common plants and describe the	Can explain the function of the parts	Can explain the lifecycles and
	observations and	basic parts of flowering plants	of a flowering plant (Living things)	processes of a range of different
	drawings of	(deciduous/evergreen)		plants and trees.
	plants.		Can explain the life cycle of a	
			flowering plant lifecycle including	Can use ID guides to identify plants.
		Can describe key features of trees and	pollination, seed formation, seed	(Living things)
	Know similarities	plants e.g. shapes of leaves, colour of	dispersal and germination (Living	
	and differences	flower, blossom.	things)	Can classify plants in different ways
	between the			using observable characteristics/
	natural world and	Can use photos to talk about how plants	Can classify plants in different ways	similarities and differences.
	contrasting	change.	(Living things)	(Living things)
	environments.			, , ,
		Can talk about plant lifecycles.		Give reasons for classifying plants
				based on characteristics (Living
	Can plant seeds	Know basic parts of plant e.g. leaf, stem,		things)
	and care for	petal, flower, stalk, bud, roots, fruit, bark,		
	growing plants.	blossom.		
	Browning plants.	Siessein.		
		Can describe how plants have grown from		
	Understand basic	seeds and bulbs and how they have		
	plant lifecycle.	developed over time.		
	Know leaf, stem,	developed over time.		
	petals.	Know conditions for plant growth.		
	petais.	Can spot similarities and differences in		
		bulbs and seeds.		
		buibs and seeds.		
		Know all parts of the plant and their		
		Know all parts of the plant and their function.		
		Tunction.		
		Knowtorme light sheds are warms		
		Know terms: light, shade, sun, warm, grow,		
		healthy, growth, germinate.		
A ! I .	6	Con many a many a familia da mini da m	Con a constable and in the	Consideratify label and drawn to f
Animals	Can name a range	Can name a range of animals which include	Can name the main bones in the	Can identify, label and draw parts of
including 	of animals e.g.	animals from each of the vertebrate	skeletal system such as skull, ribs,	the circulatory system e.g. heart,
Humans	farm/jungle.	groups.	humerus, vertebrae, pelvis, ulna,	blood vessels, capillaries, arteries,
(including			carpals, radius, femur, phalanges,	blood. Understand the function of the
Evolution and	Can group using		patella, tibia, tarsals, fibula,	different parts. Understand how
inheritance)	basic		metatarsals.	



Chemistry				
			and prey.	
		microorganism, germs.	Can identify the producer, predators	
		reproduce, exercise, hygiene, microorganism, germs.	lifecycles and food chains.	
		Know terms: offspring, nutrition,	Can order and draw a range of	
		body.		
		Understand the effects of exercise on the	herbivore, omnivore and carnivore.	
		identify some food groups.	Can identify animals and classify based on their teeth whether they are	
		Understand the term balanced diet and can	Consideratify entire also set also site.	
			function.	
		keep hygienic.	canines and incisors and their	
		Know about microorganisms and how to	their mouth: molars, pre-molars,	
		water, shelter.	Know the different types of teeth in	process of fossilisation.
		need to survive e.g. food, sleep, exercise,	explain the process.	evidence of the past and know the
		Can explain what humans and animals	parts of the digestive system and	Understand that fossils give us
		,	Can identify and label and draw main	
		e.g. butterfly.	, 12.1.22.22.22.23.23.23.23.23.23.23.23.23.23.	evolved over time.
	taste, hear, see.	Can order the lifecycle of different animals	why we need to eat a balanced diet.	Give examples of how animals have
	senses e.g. touch,	their offspring e.g. goat- Kid.	Know the different food groups and	environment.
	hair, fingers. Know basic	get older. Know names of animals and	food.	animals are suited/adapted to their
	mouth, nose,	Can describe how animals change as they	Can name different nutrients found in	and give examples of how plants and
	eyes, ears,	Can name the 5 senses.		Can explain the process of evolution
	legs, arms, toes,		hydrostatic skeleton.	Evolution
	tummy, knees,	associated.	endoskeleton, exoskeleton and	
	head, body,	human body and say what sense is	skeletons can classify into	systems learned so far.
	point to different body parts e.g.	Can name, draw and label parts of the	See similarities and differences in	Recognise the impact on all body
	Can name and	reptile, amphibian, mammal.	help to move.	body's function.
		observable characteristics. Know terms:	Can describe how muscles and joints	exercise and lifestyle on the way their
	fly.	Describe and compare animals based on		Know the impact of a balanced diet,
	legs, can fly/cant	,	system.	,
		_	Know the function of the skeletal	·
	characteristics e.g. land/sea, 4	Understand and categorise animals who are herbivore, carnivore and omnivore.	Know the function of the skeletal	nutrients are transported around the body within animals and humans.



Matter (materials and rocks)	Can talk about the similarities and differences between materials. Can describe using basic words. They can group materials based on how they feel or look like.	Can label a picture of an object based on what it is made of. Can describe the properties of materials. Can sort materials using its properties. Know terms: wood, plastic, glass, metal, water and rock. Compare the suitability of different materials including wood, metal, plastic, glass, brick, rock, paper, cardboard, water. Know that shapes of solid objects can be changed by squashing, bending, twisting and stretching. Can describe similarities and differences.	Compare and group types of rock and give physical features of each. Explain how a fossil is formed. Explain that soils are made from rocks and also contain living/dead matter. Classify rocks in a variety of ways using scientific vocabulary. Test properties of rocks. Describe materials using transparent, translucent and opaque. Can name properties of solids, liquids and gasses. Can explain process of melting and freezing. Know the terms evaporation and condensation. Can describe the water cycle. Know materials have different melting points. Can test a variety of materials to answer questions.	Can explain every day uses of materials. Can explain what dissolving is. Can name equipment for filtering and sieving. Know how to recover substances from solutions or mixtures by evaporation, filtering or sieving. Can describe reversible and non-reversible changes to materials and give examples. Recognise that things have changed over time and fossils provide information about living things that inhabited the Earth millions of years ago. (Evolution and Inheritance)
Dhysics			3	
Physics Light		Can describe how we see objects in light		Can describe using diagrams how light
		and describe dark as the absence of light.		travels in straight lines, either from



Sound		Know it is dangerous to look at the sun. Understand the term ultra violet. Know the terms transparent, translucent and opaque. Can describe how shadows are formed Predict which materials will be more/less visible. Know the term reflective and why reflective materials are useful.	Can describe different types of objects producing different sounds. Know that sound is caused by vibrations. Can describe how sound travels through different mediums e.g air, water, metal. Can find patterns between pitch and volume and the features of the objects producing it.	sources or reflected from other objects into our eyes. Can explain how we see things and can label basic parts of the eye and explain their function. Can describe with diagrams how light travels past translucent or opaque objects to form shadows of the same shape. Know how to change the size of shadows by moving objects closer/further from light source.
			Know that sounds get fainter as the distance from the sound increases.	
Forces	Shows skills in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movement or	Understand the terms push and pull. Can move objects by applying a force such as pushing a car. Know how different materials can be changed by applying a force such as	Compare how things move on different surfaces. Can give examples of forces in everyday life. Name a range of magnets.	Can explain the effects of gravity acting on an unsupported object.



Electricity	new images. Understand push and pull.	squashing, bending, twisting and stretching.	Know that magnets have a north and south pole. Can show how the poles attract and repel. Can draw diagrams to show the attraction and repulsion between poles of magnets. Can name magnetic and non-magnetic materials.	Can give examples of friction, water resistance and air resistance. Can give examples of the benefits of high/low friction, water resistance and air resistance. Can demonstrate how pulleys, levers and gears work. Know that these systems can make lifting heavy objects easier. Understand different forces and can apply this knowledge across different subjects e.g. geography.
Licentery	basic structure of a circuit (bulb, battery and		Can make a simple circuit.	Know how to make bulbs brighter, buzzers louder.



	wires) to create their own robot toy		Can control a circuit using a switch. Can name some conductors and insulators. Can use drawings to represent their circuits. Can describe how a circuit works. Can name some appliances that run on battery/mains. Know how to make a bulb brighter.	Can label and name components in a circuit. Can draw circuits using symbols. Make circuits to solve particular problems such as a quiet and a loud burglar alarm.
Space				Know how the earth and moon move. Know different planets in the solar system. Can understand night and day by explaining the rotation of the earth on its axis. Understand why shadows change using scientific vocabulary and the position of the sun. Can explain how a sundial works. Can explain why we have time zones.
Seasons and weather	Know the four seasons Can experience different seasons and describe how they feel.	Can name the four seasons and identify in the year when they occur. Can observe and describe the weather in different seasons. Can describe days being longer in summer and shorter in winter.		



	Can comment on		
	the environment	Compare seasons.	
	e.g. leaves on the		
	ground.		
	Can name some		
	clothes they may		
	wear.		
	Know some		
	weather e.g. rain,		
	wind, sun, snow,		
	cloud.		
	Understand the		
	terms night/day		

Strand		EYFS	Year 1	Year 2	Year3	Year 4	Year 5	Year 6
	Asking	Question why	Ask simple	Ask questions	Ask some	Ask relevant	Begin to raise	Plan different
		things happen.	questions about	about the world	relevant	questions and use	different types of	types of enquiries
	Questions	Ask questions to	the world around	around us using	questions and use	different types of	scientific	to answer
		find out how	us using <u>what,</u>	what, where,	different types of	scientific	enquiries to	questions.
		things work.	when, where	when, why, how	enquiries to	enquiries to	answer questions,	
					answer them,	answer them,		



	Can ask yes or no	Recognise that	using what	using what	using a variety of	Explore & talk
		_	using <u>what,</u>	using <u>what,</u>		•
	questions to sort	they can be	where, when,	where, when,	question words	about ideas, ask
	and classify	answered in	why, how	why, how, did,	Danis ta assala	own questions
		different ways.		<u>can</u>	Begin to explore	and recognise
	Can raise own		Begin to raise		& talk about	more abstract
	questions	Make relevant	their own	Make some	ideas, ask own	ideas.
		contributions to	questions about	decisions about	questions and	
	Begin to	class or small	the world around	which types of	recognise more	Select most
	recognise that	group plans (eg.	them.	enquiry will be	abstract ideas.	appropriate ways
	they can be	post-it planning)		the best way of		to answer science
	answered in		Can raise	answering	Begin to select	questions using
	different ways.	Can use a range	questions and can	questions.	the most	different types of
		of question	carry out tests		appropriate ways	enquiry.
	Begin to	stems.	with support to	Can ask a range of	to answer	
	contribute to		find things out.	questions to sort	scientific	Independently
	class plan (eg.			and classify.	questions.	record planning
	post-it planning)		Begin to make			and consider own
			some decisions	Can write a range	Independently	layout & purpose.
			about which	of questions using	record planning	Suggest own lines
			types of enquiry	own scientific	and suggest own	of enquiry
			will be the best	knowledge.	lines of enquiry	
			way of answering			Can raise
			questions.	Can answer	Use scientific	questions to
				questions	experiences to	further prove or
			Contribute to	independently	explore ideas and	disprove a
			class planning.	using secondary	raise different	scientific enquiry.
			Begin to record	sources.	higher order	' '
			independent		questions.	Can raise
			planning with	Contribute to		questions about a
			relevant headings	class planning.	Can raise	range of
			provided.	Record	questions and	phenomena.
			p. 0	independent	suggest reasons	1
				planning with	for similarities	
				relevant headings	and differences	
				provided. Begin		
				to suggest own		
				lines of enquiry		
				inies of eliquity		



Make predictions	Can make simple predictions based on comparisons e.g. float or sink.	Can make basic predictions over things they can see or their own ideas. Use some scientific vocabulary.	Draws knowledge from observations to make predictions. Can begin to test predictions and later answer questions.	Draws on knowledge to make predictions. Can add detail to their predictions. Make further predictions based on what's observed or tested.	Predictions are detailed and explains their thinking, they link to tests, data and use scientific language. Raise further predictions from results based on patterns.	Use subject knowledge, observations or previous learning to make predictions. Add detail and explanations. Can identify a range of variables which could affect their investigations.	Use test results to make predictions to set up further comparative tests. Uses evidence to support predictions. Develop predictions based on research and scientific knowledge.
Observation and measurement	Observe and describe what they see using everyday language. Use equipment such as magnifying glasses and viewers. Take measurements by comparing and notice simple patterns e.g. bigger/smaller.	Can identify and group, compare and contrast using observations, video and photographs. Can observe changes over time and describe changes. Can use magnifying glasses and viewers. Use simple measurement and equipment such as egg	Observe closely and select the correct equipment. Can identify a range of plants using ID charts. Observe how plants and animals grow and record findings. Notice similarities and differences. Use observations and ideas to suggest answers to questions.	Make systematic and careful observations. Select own equipment for observing (Ipads) Look for naturally occurring patterns. Collect data from own observations. Can make observations and decide how to record them to answer a question.	Make systematic and careful observations to ask questions and group objects using classification keys. Observe closely and explain processes. Identify similarities, differences or changes related to simple scientific ideas or processes.	Observe carefully and make comparisons. Observe changes over a period of time. Make decisions about what to observe to answer questions. Use observation skills to identify plants and animals. Take repeat measurements where appropriate.	Can make accurate drawings of plants and animals based on observations. Take measurements using a range of scientific equipment with increasing accuracy and precision, taking repeat readings where appropriate. When collecting measurements decide whether to increase



		timers and stop watches. Use non-standard measures.	Use standard units to estimate and measure. Use rulers, scales, thermometers and measuring vessels with a degree of accuracy.	Take accurate measurements using standard units. Use a range of equipment and begin to read digital measurements from data loggers and stop watches	measurements using standards units to 2dp. Use data loggers to record. Use volt metres and begin to gather repeat readings to increase accuracy.	Can find the average of data. Select measuring equipment and use accurately e.g. ruler, tape measure, trundle wheel, force metres.	validity and reliability. Record measurements to 3dp. Use protractors, rulers, force metres, volt meters accurately
Planning enquiries	Test out ideas and take risks through trial and error. Engage in open ended activities. Choose resources they need for their activity from their environment. Find ways to solve problems.	Begin to recognise ways they may answer scientific questions. Experience different types of enquiry including practical activities. Use resources provided by the teacher and suggest some resources of their own e.g. pipettes.	Can plan and carry out simple tests linked to the different types of enquiry. They can carry out a simple comparative test using some of their own ideas. Can suggest their own resources to carry out tests.	Can set up practical enquiries using comparative and fair tests. Use a range of scientific enquiry. Can investigate and answer on questions linked to shared planning frame. Understand some of the variables needed to be controlled with support. Use a range of equipment e.g. thermometers and data loggers.	Can identify the type of enquiry needed to answer a question. Follow a plan to carry out observations and tests. Use a planning approach with more independence identifying variables and what needs measuring. Children choose their method to carry out their investigation.	Recognise when and how to set up comparative and fair tests and explain which variables need to be controlled and changes. Understand what type of scientific enquiry is needed to answer and prove/disprove scientific questions or phenomenon.	Children choose the type of enquiry needed to carry out their investigation. Children can pose and answer their own questions, controlling variables where necessary independently. Decide whether sample size needs to be increased for validity. Identify a range of factors which may affect their investigation.



Recordi	ng Draw pictures or	Begin to show	Gather and	Record findings	Record findings	Present results in	Record data and
	objects in their	some accuracy in	record data to	using scientific	using systematic	a variety of ways	results with
	own	drawings,	help answer	language,	and careful	to help answer	increasing
	environment.	observations and	questions.	drawings and	observational	questions.	complexity e.g.
		use simple labels.		labelled diagrams	drawings and		accuracy of
	Can take photos	Use scientific	Record	Including detailed	labelled diagrams	Can decide how	measurements.
	of things that	vocabulary	observations	labelling and	using scientific	to record from a	
	interest them.	provided by the	using photo	written	vocabulary.	range of	Use scientific
		teacher.	video, drawings,	explanations		approaches.	diagrams, models
	Can count results		labelled diagrams	based on	Children to		and labels
	and start to make	Can complete a	or in writing.	observations.	present the same	Can record ideas	accurately with
	marks to record	simple prepared			data in different	using accurate	clarity and using
	results.	table with some	Count results	Can complete a	ways.	diagrams using	precise scientific
		support and	using tally charts.	table where they		scientific	language.
	Can sort in at	scaffolding.		can add own	Can create own	language.	
	least 2 groups.		Use prepared	headings and	tables with		Calculate mean
		Can add marks to	tables to record	results.	headings.	Create own	and rage of a set
	Can create a class	a chart to	results more			results table	of data.
	pictogram using	complete data.	independently.	Use simple	Can record using	including cause	
	pictures and			classification keys	classification	and effect.	Can use and
	objects.		Use simple keys	and Venn	keys.		produce
			based on yes and	diagrams.		Record results	classification keys
			no questions.		Can use Venn and	systematically	independently by
				Can use Carroll	Carroll diagrams	and repeat	posing questions.
			Can sort into 2	diagrams and give	with accuracy.	readings.	
			groups with own	reasons for			Can
			categories and	criteria.	Can use discrete	Use and develop	independently
			explain reason for		and continuous	classification	collect data and
			choices.	Can produce bar	data using	keys.	produce scatter
				charts adding	line/scatter		and line graphs.
			Create own	own axis labels	graphs.	Can classify in a	
			pictogram, block	and headings.		number of ways.	Can create bar
			diagram and		Can construct bar		charts and pie
			simple tables.	Begin to draw bar	chart	Use line or scatter	charts to present
				chart and record	independently.	graphs to	data.
				data with		calculate range in	
				support.	Interpret line	a set of data using	
					graphs	different scales.	



				Interpret bar charts, tables, two-way tables and data.	Draw line graphs (heavily scaffolded including headings)	Can produce line graphs with various increments.	
Interpreting and concluding	Offer explanations for why things happen- making use of some recently introduced scientific vocabulary. Develop own narrative and	Can use evidence from simple tests when answering questions. With help begin to notice patterns and relationships. Talk about what they have found out and how they found it out.	Communicate findings to an audience using relevant scientific language and illustrations. Can identify casual relationships and patterns in results.	Draws conclusions based on observations. Can compare something using results and the conclusion is consistent with the data. Able to adjust	Draws simple conclusions from results to answer questions and support their ideas. Look for casual relationships in data and identify evidence that refutes/supports ideas.	Identify patterns and casual relationships that may be found in the natural environment. Children interpret data to generate simple comparative statements based on evidence.	Look for patterns and relationships using a suitable sample. Use oral and written forms such as displays to report conclusions, casual relationships and explain the
	explain by connecting ideas or events. Develop vocabulary which meets the breadth of their experiences.	Can make comparisons and recognise biggest/smallest, most effective/least effective from data. Can use simple models to explain processes e.g. seasonal changes, lifecycles.	Can identify which results do not fit the overall pattern and explain findings. Refers to the table of results when describing what has happened. Draws a basic conclusion (with support from the teacher) using own scientific knowledge, observations and comparisons.	opinion and predictions based on results. Can give reasons for results including any anomalies. Use simple scientific language to discuss ideas and communicate their findings in ways appropriate for different audiences orally and written	Report on findings to an audience orally and in writing using appropriate scientific vocabulary for a range of audiences. Children use evidence to suggest values for different items tested using the same method.	Use results to draw conclusions and can identify external factors that cannot be controlled e.g. temperature inside and outside. Use scientific language and illustrations to discuss, communicate and justify scientific ideas.	degree of trust in their results. Makes suggestions for ideas that can be explored using pattern seeking. Can spot anomalies and identify results that do not fit the overall pattern. Use data to refute or support ideas or arguments.



		Uses results of investigations to answer enquiry questions.		Draw conclusions based on straightforward evidence and current subject knowledge to support their findings, Suggest improvements and raise further questions.	Can use comparative statements to explain results and how things work.	Focuses on scientific reasons for overall pattern rather than a comparison. Uses labelled diagrams to support their explanation. Use ideas from secondary sources to support their ideas, choosing appropriate websites. Create detailed models to explain processes such as circulatory system and lifecycles.
Evaluating			Apply their knowledge of the topic when evaluating. Explain any amendments and how this impacted the investigation/test.		Evaluate how effectively variables were controlled and what they may do to improve the enquiry.	



	6' '	Make simple	Observe closely,	Begin to make	Make systematic	Take	Take
	Observing	observations,	•	_	& careful		
	over time	· ·	using simple	systematic & careful		measurements,	measurements,
		using all five	equipment		observations.	using a range of	using range of
		senses.	(thermometers,	observations.	Tales a service to	equipment, with	scientific
		Danim ta matian	beakers, insect	AA/la a va	Take accurate	increasing	equipment, with
		Begin to notice	catchers, pipettes	Where	measurements	accuracy &	increasing
		changes over	and timers)	appropriate, take	using standard	precision. Take	accuracy &
		time.		accurate	units and a range	repeat readings	precision. Take
			Make several	measurements	of equipment	where	repeat readings
		Say what looking	related	using standard	with less support	appropriate	where
		for and why.	observations	units and a range			appropriate
		.	spontaneously.	of equipment	Learn to use	Begin to make	(revisit previous
		Start to use		with support	some new	own decisions	learning)
نه		simple scientific	Use observations	(magnets, newton	equipment	about what	Buzzers
		equipment	& ideas to	metres)	appropriately	observations to	
5		(magnifying	suggest answers		(data loggers and	make,	Make own
<u> </u>		glasses and	to questions.		electricity	measurements to	decisions about
<u> </u>		rulers)			circuits).	use and how to	what
Ψ.			Say what looking			do for.	observations to
7			for and				make,
S			measuring.			Choose most	measurements to use and how to
نة						appropriate	
Q						equipment &	make them for.
Types of enquires						explain how to	Da sida whathau
						use it (pulleys,	Decide whether
						levers, gears,	to repeat them.
						petri dishes,	Choose most
						sieves and	appropriate
						funnels)	equipment and
						Make a set of	explain how to
						Make a set of	use accurately.
						observations and	Make set of
						say what the	observations &
						intervals/range	
						are.	say what
							intervals/range
							are.
		1		ĺ	Í		



						Accurate & precise measurements.
Pattern seeking	With adult prompts, begin to notice patterns that occur. Say what looking for and why.	Make simple comparisons with the data they have collected. Explain simply what happened and whether it was expected or not.	Begin to look for naturally occurring patterns and relationships. Decide what data to collect to identify it. Make decisions about what observations to make, how long to make them for and the type of equipment that might be used. Begin to use collected evidence to support/disprove original prediction. Beginning to see pattern in results.	Begin to look for naturally occurring patterns & relationships. Decide what data to collect to identify them. Help make decisions about what observations to make, how long to make them for and the type of equipment to use. Spot pattern in results. Use evidence collected to disprove or support their original prediction. With support, begin to look for changes, patterns,	Begin to identify patterns that might be found in the natural environment. Begin to independently interpret data and find patterns in range of ways. Begin to link data to original question and use findings to make further predictions	Identify patterns that might be found in natural environment. Independently interpret data and find patterns in range of ways. Select own equipment. Link data to original question and use findings to make further predictions



cla	entifying, assifying nd grouping	Identify & c with some support. Begin to compare/ contrast wi some supp Begin to us simple feat compare o materials a living thing decide how support & g them.	classify. Observe, identify, compare and describe. ith ort. Use simple features to compare objectives, materials & living things. Decide how to sort and group them.	Begin to talk about criteria for grouping, sorting & classifying. Begin to use simple classifying keys. Begin to compare & group according to behaviour or properties.	similarities & differences in data to draw simple conclusions & answer questions. See patterns. Talk about criteria for grouping, sorting and classifying. Use simple keys. Compare & group according to behaviour or properties, based on testing.	Begin to use and develop keys and other information records to identify, classify and describe	Use and develop keys and other information records to identify, classify and describe.
an	omparative nd fair sting	Perform sin tests with support. Begin to di ideas abou to find thin Begin to sa	tests. Discuss ideas about how to find thow things out and gs out. what happened in y what the investigation	support Begin to	Set up simple practical enquiries, comparative and fair tests independently Recognise when a	Begin to use test results to make predictions to set up further comparative & fair tests.	Use test results to make predictions to set up further comparative and fair tests. Recognise when & how to set up
		happened investigation		recognise when a simple fair test is necessary & help	simple fair test is necessary & help decide how to set it up.	recognise when & how to set up comparative & fair tests, explain	comparative & fair tests and explain which variables need to



	Begin to say what makes the investigation 'fair'.	investigation fair or not. p	decide how to set it up. Begin to think of variable factors.	Think of variable factors.	which variables need to be controlled and why. Begin to suggest improvements to method and give reasons. Begin to decide when it's appropriate to do a fair test or not.	be controlled & why. Suggest improvements to method and give reasons. Decide when a fair test is appropriate.
Research using secondary resources	Begin to use simple secondary sources to find answers. Begin to find information to help from books & computers/iPads	Use simple secondary sources to find answers. Find information to help from books & computers/iPads	Begin to recognise when & how secondary sources might help to answer questions that cannot be answered through practical investigations.	Recognise when & how secondary sources might help to answer questions that cannot be answered through practical investigations.	Begin to recognise which secondary sources will be most useful to research our ideas.	Recognise which secondary sources will be most useful to research ideas.