<u>EYFS</u>	Observing Over	Pattern Seeking	Identifying, Classifying and	Fair Testing	<u>Research</u>	<u>Continuous</u>
	<u>Time</u>		Grouping			Provision
All About	Autumn walks –	Measuring	Sorting images of ourselves –	N/A	Books about	Water
Me/Once Upon a	setting up the	ourselves on the	e.g. hair colour		ourselves –	Sand
Time	Autumn table.	height chart – are			'Wonderful Me.'	Ramps
		boys bigger than	Comparing features with a			Magnets
	Planting Spring	girls?	partner using a mirror.		Texts about	Light Filters
	bulbs.				seasons –	Allotment
			Leaf sorting.		'Seasons Come,	
	Weather				Seasons Go.'	
	activities –					
	scarves in the				Nature walks.	
	wind, drawing					
	around puddles,				Animals/insect	
	watching				books.	
	changes in ice					
	and snow.					
	Baking					
	Gingerbread men					
	and making					
	porridge.					
People Who	Observing the	Keeping a	Role play – recycling – sorting	N/A	Books – e.g.	Water
Help Us	growth of	weather chart	materials – metal, paper or		Spring is Here	Sand
	crocuses,	over time.	plastic.			Ramps
	daffodils and				Visit from a	Magnets
	tulips.		Testing and sorting materials		dentist/doctor to	Light Filters
			into waterproof and not		ask questions.	Allotment
	Re-measuring our		waterproof.			
	height.					
			Comparing fingerprints.			
	Spring walk					

			Exploring high visibility			
	How does water		materials			
	change – frost,					
	snow, ice					
Plants	Allotment –	Introduction to	Photographing	N/A	Bean/Butterfly life	Water
	planting beans	habitats e.g.	plants/animals/minibeasts.		cycle books.	Sand
	(link to Jack and	where do we find				Ramps
	the beanstalk.)	woodlice?	Matching minibeast to photos.		Stories set in	Magnets
					Africa.	Light Filters
	Watching	Minibeasts – Are	Sorting – e.g. number of legs on			Allotment
	caterpillars grow	all minibeasts	a minibeast.		Animal books.	
	into butterflies.	red?				
			Exploring new fruits –			
	Looking at decay	Measuring our	describing/exploring/comparing			
	in daffodils.	beanstalks – Are	seeds, size, colour.			
		those closer to				
	Nature walk.	the window	Describing/sorting African			
		taller?	animals			

<u>Year 1</u>	Observing Over Time	Pattern Seeking	Identifying,	Fair Testing	<u>Research</u>	<u>Scientists</u>
			Classifying and			
			<u>Grouping</u>			
Materials		Sorting materials	Grouping materials	Making a tent or a		Stephanie
		and looking at	by their property.	towel for a teddy.		Kwolek.
		everyday objects.		Which is the best		
			Classifying	material for each?		
		Finding different	materials by their			
		materials in the	type			
		environment.				
Animals including		Looking at	Grouping animals	Senses	Animal	
Humans		different animal	by their	experiments –	encyclopaedias.	
		groups – e.g. claws	characteristics.	blind tasting of		
		on carnivores and		different crisps	Farm on wheels	
		hooves on		flavours.	visit	
		herbivores.				

			Looking for		Exotic Zoo trip.	
			minibeasts – who			
			eats me?			
Plants	Planting a bean	How do plants	Identify leaves and	Planting bean	Reading about	Carl Linnaeus.
	seed – how does it	change through he	flowers.	seeds in different	famous botanists.	
	grow? Record over	seasons?		places.		
	time.		Observing flowers			
			from botanist			
			drawings			
Seasons	Changes	Changes to leaves	Compare			
Continuous	throughout the year	– look at evergreen	temperatures.			
Provision	– take phots of the	trees.				
	same place and		Look at similarities			
	look at the		and differences			
	changes.		between the			
			seasons as they			
			change.			

<u>Year 2</u>	Observing Over Time	Pattern Seeking	ldentifying, <u>Classifying and</u> <u>Grouping</u>	Fair Testing	<u>Research</u>	<u>Scientists</u>
Materials			Sorting materials	Testing different		George
			based on their	materials to see which		McAdam.
			properties.	are		
				waterproof/absorbent?		
Animals including	Watching animals	What are the	Sorting food into	Germns on our hands -	Finding out about	
Humans	grow – frogspawn.	effects of exercise	food groups.	Washing our hands in	life cycles.	
		on the body.		glitter to see how		
				germs are passed on.		
Plants	Watching plants		Sorting bulbs and	Growing seeds in	Naming plants.	
	grow from a seed.		seeds.	different places.		
					Finding out how to	
					grow a seed.	

Living Things and	Cut plants in the	Explore the outside		
Their Habitats	classroom.	to find habitats,		
		plants and		
		animals.		

Year 3 and 4	Observing Over	Pattern Seeking	Identifying, Classifying	Fair Testing	<u>Research</u>	<u>Scientists</u>
<u>Year A</u>	<u>Time</u>		and Grouping			
Animals	What is the		Grouping animals -	Sugar on eggshells	Looking at	
including	impact of sugar		Carnivores	investigation.	different kinds of	
Humans	on eggshells.		Herbivores		teeth.	
			Omnivores			
Light and	Effect of sun		Identifying natural and	Sun cream investigation.		
Shadows	cream UV beads.		man-made sources.	Effect of sun cream UV		
				beads.		
			Shining light on			
			different objects –			
			opaque/transparent/			
			translucent.			
			Identify and sort			
			reflective materials.			
Bocks and Soils			Grouping and sorting	Permeability test – using	Finding out	Mary Anning.
			rocks	different rocks	about Mary	1 101 9 7 111118
			rookor		Anning	
			Sorting natural and		,	
			man-made rocks			
Sound	Observinghow	Investigating		Testing - how pitch and		Δlexander
oouna	sound is	how the harder		volume can be changed		Graham Bell
	produced by	the hit the		votume can be changed.		Oranani Dett.
	vibrationa	louder the				
		volume.				

	String	Investigating the			
	telephones	length of string			
		and how this			
		effects pitch.			
Electricity		Investigating	Investigating conductors	Changing	Thomas
		what happens	and insulators.	components	Edison.
		when we add		used in a circuit.	
		more batteries			
		into a circuit			
		with a bulb?			

Year 3 and 4	Observing Over	Pattern Seeking	Identifying, Classifying	Fair Testing	Research	<u>Scientists</u>
<u>Year B</u>	<u>Time</u>		and Grouping			
Plants	Compare plants		Dissect and identify the		Finding out	
	growing in		parts of plants.		about seed	
	different				dispersal.	
	conditions.		Classify seeds by their			
			dispersal.			
	Observing					
	transportation of					
	water over time .					
Living Things and			Sorting invertebrates		What is the	
Habitats			and vertebrates into		human impact	
			groups.		on environment.	
			Grouping living things			
			into different groups.			
			Classification keys to			
			name unknown living			
			things.			
			Minibeast hunt.			

Forces and	Experimenting		Sorting magnetic and	Investigating different		Isaac Newton.
Magnets	with magnetic		non-magnetic	surfaces and friction		
	field and iron		materials.			
	fillings.			Looking at the size/type of		
				magnets and how this		
				effects their strength.		
Solids, Liquids	What is the		Solids, Liquids, Gas	Investigating the melting	Finding out	
and Gas	melting point of		sorting things into the	point of	about the water	
	chocolate.		correct state.	chocolate/wax/butter	cycle.	
	Observing			How fast does water		
	evaporation/			evaporate?		
	condensation					
	Melting materials					
	– observation of					
	changing state.					
Animals		If you have a	Food groups – sorting		Looking at food	
including		longer femur are	foods into the correct		labels for	
humans		you taller?	group.		nutritional value.	
			Sorting types of		Research the	
			skeletons based on		function of a	
			research.		skeleton.	

Year 5 and 6	Observing Over	Pattern Seeking	Identifying, Classifying	Fair Testing	<u>Research</u>	<u>Scientists</u>
<u>Year A</u>	<u>Time</u>		and Grouping			
Living things and their habitats	Observe food		Branching key		Micro	
(Y6)	going mouldy		database on		Organisms.	
(microorganisms/classification)	and the		organisms.			
	reaction of					
	yeast.		Creating our own key			
			to classify living			
			things.			

			Exotic Zoo visit –			
			classifying animals.			
Evolution and inheritance (Y6)	How skeletons	Beak	Identifying inherited		Charles	Charles
	have changed	experiment –	characteristics.		Darwin.	Darwin.
	over time –	what do birds				
	looking at	have in	Adaptive traits –			
	fossils.	common?	identifying habitats.			
Animals including humans (Y6)	Measuring	Looking for	Grouping food and	Measuring heart	Story of diet.	James Lind.
(systems	heartbeats	patterns in	nutritional values.	beats.		
of the body)	before and	heartbeats.			How muscles	
	after exercise.				work and how	
					to exercise	
					different	
					muscles.	
Light (Y6)				How can we change	The eye.	
				shadows?		
Electricity (Y6)				What effects the		Thomas
				brightness of a bulb.		Edison.
				Investigate the length		
				of wire in a circuit.		

Year 5 and 6	Observing Over	Pattern Seeking	Identifying, Classifying	Fair Testing	Research	<u>Scientists</u>
<u>Year B</u>	<u>Time</u>		and Grouping			
Forces (Y5)		Leavers –		Effects of air resistance	Find out how	Isaac Newton.
		investigating the		and water resistance	levers work	
		distance from			through practical	
		the fulcrum.		Creating own parachute	investigation.	
				to test the effects of air		
				resistance.		
				Looking at different		
				surfaces – friction		
Animals	Life cycle – stages	Patterns in the	Venn diagram – puberty			
including	of a human	needs of babies.				

humans (Y5)						
(lifecycle		Growth charts –				
of a human)		predicting				
		height.				
		Patterns in				
		gestation				
		periods and				
		offspring/size of				
		the animal.				
Earth and space	What makes a	Comparing			Research into	Copernicus.
(Y5)	day, month and	hours of			planets.	
	year?	Sunlight in				Galileo.
		England and			Trip to the Space	
		other countries.			Centre.	
					Geocentric and	
					Heliocentric	
					models.	
Living things and	Observing –	Similarities and	Sorting sexual and		Research into	Jane Goodall.
their habitats	lifecycles of	differences in	asexual plants.		different	
(Y5) (life	plants and	life cycles.			lifecycles.	
cycles and	animals					
reproduction of					Different ways	
plants and					that plants	
animals)					reproduce.	
Properties and	Dissolving and		Grouping materials.	Investigating dissolving.		
changes of	evaporation.					
materials (Y5)				Insulation – which		
	Reversible and			material insulates more?		
	irreversible					
	changes – tablets					
	and sand in					
	water.					