Nursery*	Autumn 1	Autumn 2	Science Spring 1	Spring 2	Summer 1	Summer 2
ivui sei y	Settling in/Autumn	Winter	Story telling	Spring, (baby animals,	Growth and	Summer
			, ,	beginning of growth)	changes	
Compiled from Development Matters document, and EYFS Stat FW	 Use all their senses in hands on exploration of natural materials. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary Begin to make sense of their own life-story and family's history 	 Talk about what they see, using a wide vocabulary Explore and talk about different forces they can see and feel; floating and sinking Talk about the differences between materials and changes they notice (Melting/freezing) 	Know that there are different countries in the world and talk about the differences they have experienced or seen in photos.(Through celebrations)	 Begin to make sense of their own life-story and family's history. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary Begin to understand the need to respect and care for the natural environment and all living things. Talk about what they see, using a wide vocabulary 	 Plant seeds and care for growing plants. Understand the key features of the life cycle of a plant and an animal. Begin to understand the need to respect and care for the natural environmen t and all living things. Explore collections of materials with similar and/or different properties. Talk about what they see, using a wide vocabulary 	 Show interest in different occupations. Talk about the differences between material and changes they notice (Melting/freezing) Explore and talk about different forces they can fe – Magnets pirate treasure?

^{*}This is a basic outline of planned activities to ensure coverage, most learning is planned in the moment and around children's interests. Celebrations based on what is important to our children are also covered.

Reception	Autumn 1	Spring 1	Spring 2 S	Summer 1	Summer 2
	All about me	Food	Our Natural World		Journeys
Understanding					
Understanding the world Enriching and widening children's vocabulary will support later reading comprehension.	unique, special, body part names, skeleton celebrate, religion, feelings, emotions, change, family, past, present, baby, toddler, teenager, adult family, animal, human, face, hair, head, shoulders, knees, toes, eyes, ears, mouth, nose • Identifying their family. Commenting on photos of their family: naming who they can see and of what relation they are to them. • Can talk about what they do with their family and places they have been with their family. Can draw similarities and make comparisons between other families. Name and describe people who are familiar to them. • Environments – Features of local environment Maps of local area Comparing places on Google Earth – how are they similar/different	Healthy, unhealthy, exercise, diet, energy, growth, chef, cook Children to be able to talk about favourite foods and any traditions involving foods To be able to sort healthy and unhealthy food explaining why Know where food comes from and to be able to sort food into categories Know the features of a healthy life style	ocean, land, country, continent, and habitat, environment, recycle, national pollution touch, smell, hear, see, environment season, spring, summer, autumn, weather, day, night, nocturnal Introduce the children to recycle how it can take care of our work what rubbish can do to our end and animals. Create opportunt discuss how we care for the naround us. Can children make comments weather, culture, clothing, hoe Change in living things Draw children's attention to the immediate environment, intromodelling new vocabulary whappropriate. Encourage interactions with the tofoster curiosity and give children foster curiosity and give children incorporating understanding of the seasons weather in their play. Compare animals from difference ountries Nocturnal Animals Making sendifferent environments and had	ent, recycle, winter, ycling and rorld. Look at nvironment nities to natural world s on the busing. the roducing and here the outdoors nildren hear the luring hands- ng their is and rent	Journey, travel, solar system, planet names, star, transport, machine, land, air, road, sea Sink, float, metallic, non-metallic, transport, space, Earth • Materials: Floating / Sinking – boat building Metallic / non-metallic objects • Seasides long ago Share non-fiction texts that offer an insight into contrasting environments. • Discuss how they got to school and what mode of transport they used. Introduce the children to a range of transport and where they can be found. • How has transport changed from the past • Discuss inventors of different modes of transport • Encourage the children to use navigational language.

		 Introduce the children to NASA and America. Introduce children to significant figures who have been to space and begin to understand that these events happened before they were born.
C : '.'C' E : CI :I		they were born.

Year 1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Senses – Body Parts	Seasonal Changes	Animals		Seasonal	Materials
					Changes - Plants	
	head, neck, arms,	season, autumn, winter,	animal, fish, amphibian,	reptile, bird, mammal,		hard/soft,
	elbows, legs, knees,	spring, summer, day,	carnivore, herbivore, om	nivore, pet	deciduous,	stretchy/stiff,
	face, ears, eyes, hair,	weather, sun			evergreen, tree,	shiny/dull,
	mouth, teeth		I know that some body p	arts are specific to certain	plant, leaves,	rough/smooth,
		I know that the length	animals		flowers	bendy/not bendy,
	I know how to label	of daylight is shorter in			(blossom),	waterproof/not
	all my body parts	winter and longer in	I know that animals can	be sorted into different	petals, fruit,	waterproof,
		summer	groups		roots, bulb,	absorbent/not
	I know we have five				seed, trunk,	absorbent,
	senses	I know that there are	I know the different anir	· · · · · · · · · · · · · · · · · · ·	branches, stem	opaque/transparent
		four seasons	birds, amphibians, reptil	es, mammals)		
	I know which body				I know the	I know the names of
	part is used for each	I know that some trees	I know that a carnivore of	only eats meat	different parts	everyday materials
	sense	lose their leaves in			of a plant and	
		autumn	I know that a herbivore	only eats plants	can label these	I know that I can sort
	I know what my					materials based on
	senses do	I know that evergreen	I know that an omnivore	eats meat and plants	I know that buds	their properties
	SES: 2, 3, 4, 5	trees and plants don't	SES: 2, 3, 5		form on trees	
		lose their leaves in			and plants in	I know that materials
		winter			spring	are chosen for a job
						based on their
		I know that deciduous			I know the	properties
		trees and plants lose			names of some	
		their leaves in winter			wild and garden	I know how to plan a
					plants.	fair test
		Materials			SES 1, 2, 3, 5	SES: 2, 3, 4

material, wood, plastic, glass, metal, water, rock
I know what material an object is made from.
I know that some objects are made of more than one material. SES: 1, 2, 4

Scientific Enquiry Skills:

Year 2	Autumn	Spring 1	Spring 2	Summer
	Living things and their habitats	Use of everyday	Plants	Animals including humans
		materials		
	living, dead, never been alive, habitat, micro-		plants, seeds, bulbs,	animals, humans, offspring, adult, survival,
	habitat, plant, animals, food chain, source	suitability, wood,	mature, water, light,	water, food, air, exercise, food, hygiene
		metal, plastic, glass,	temperature, grow,	
	I know that I can compare different objects	brick, rock, paper,	healthy	I know that animals and human babies
	using alive, dead and never been alive	cardboard, squashing,		grow
	I know that habitats can be classified by what is	bending, twisting,	I know that seeds and	I know that a baby animal needs air, food
	in them	stretching	bulbs need the right	and water
	I know that animals might have special		conditions to grow and	I know what a human baby needs to stay
	adaptations to help them live in different	I know that different	stay healthy	alive
	habitats (Y6)	materials have	I know that plants are	I know that there are healthy and
	I know animals in the wild are part of a food	different properties	living things	unhealthy diets
	chain	I know the materials	I know that plants can be	I know how and why I should keep myself
	I know that a food chain starts with a producer	can be changed by	called crops if they are	clean
	and ends with a top predator	manipulating them in	eaten by humans	SES: 2,3,5
	SES: 2, 3, 5	different ways I know that materials	I know that the life cycle	
		are suited to different	of a plant depends on seeds being dispersed	
		jobs, e.g. paper is not	SES: 1,2,3,4,5	
		a good material for	313. 1,2,3,4,3	
		shoes		
		I know that John		
		Dunlop invented the		
		air-filled rubber tyre		
		I know Charles		
		Macintosh invented		
		waterproof fabrics		
		SES: 2,3,4,5		

Scientific Enquiry Skills:

1. Observing changes over time 2. Noticing patterns 3. Grouping and classifying things (noticing similarities and differences) 4. Comparative and fair testing 5. Finding things out using secondary sources of information

ets and Forces , surface, et, magnetic, repel, attract that magnets north and pole that opposite f a magnet	electricity electricity, generate, renewable, appliances, battery, circuit, insulate, conduct I know that large appliances need mains electricity I know that electricity can be generated by the sun and wind	Light and Dark Light, light source, dark, reflect, ray, shadow, opaque I know that light comes from several different sources I know that light can be reflected I know that shadows	Human Systems Healthy, nutrients, energy, skeleton, muscles, tendons, joints I know that animals need nutrients to grow and live. I know that humans do not make their own food I know that humans have	evaporation, fertilisation, pollination, pollinator, germination, seed dispersal I know that roots anchor the plant to the ground and transport water and nutrients I know that plants need sunlight to make their own food I know that water is transported around the plant by the stem
that magnets north and pole that opposite fa magnet	renewable, appliances, battery, circuit, insulate, conduct I know that large appliances need mains electricity I know that electricity can be generated by the	dark, reflect, ray, shadow, opaque I know that light comes from several different sources I know that light can be reflected	skeleton, muscles, tendons, joints I know that animals need nutrients to grow and live. I know that humans do not make their own food I know that humans have	pollinator, germination, seed dispersal I know that roots anchor the plant to the ground and transport water and nutrients I know that plants need sunlight to make their own food I know that water is transported around
that magnets north and pole that opposite fa magnet	renewable, appliances, battery, circuit, insulate, conduct I know that large appliances need mains electricity I know that electricity can be generated by the	dark, reflect, ray, shadow, opaque I know that light comes from several different sources I know that light can be reflected	skeleton, muscles, tendons, joints I know that animals need nutrients to grow and live. I know that humans do not make their own food I know that humans have	pollinator, germination, seed dispersal I know that roots anchor the plant to the ground and transport water and nutrients I know that plants need sunlight to make their own food I know that water is transported around
that magnets north and pole that opposite fa magnet	battery, circuit, insulate, conduct I know that large appliances need mains electricity I know that electricity can be generated by the	shadow, opaque I know that light comes from several different sources I know that light can be reflected	tendons, joints I know that animals need nutrients to grow and live. I know that humans do not make their own food I know that humans have	I know that roots anchor the plant to the ground and transport water and nutrients I know that plants need sunlight to make their own food I know that water is transported around
that magnets north and pole that opposite f a magnet	conduct I know that large appliances need mains electricity I know that electricity can be generated by the	I know that light comes from several different sources I know that light can be reflected	I know that animals need nutrients to grow and live. I know that humans do not make their own food I know that humans have	ground and transport water and nutrients I know that plants need sunlight to make their own food I know that water is transported around
north and pole that opposite f a magnet	I know that large appliances need mains electricity I know that electricity can be generated by the	comes from several different sources I know that light can be reflected	nutrients to grow and live. I know that humans do not make their own food I know that humans have	ground and transport water and nutrients I know that plants need sunlight to make their own food I know that water is transported around
north and pole that opposite f a magnet	appliances need mains electricity I know that electricity can be generated by the	comes from several different sources I know that light can be reflected	I know that humans do not make their own food I know that humans have	I know that plants need sunlight to make their own food I know that water is transported around
that opposite f a magnet	appliances need mains electricity I know that electricity can be generated by the	I know that light can be reflected	I know that humans do not make their own food I know that humans have	their own food I know that water is transported around
that opposite f a magnet	electricity I know that electricity can be generated by the	I know that light can be reflected	not make their own food I know that humans have	their own food I know that water is transported around
f a magnet	I know that electricity can be generated by the	be reflected	I know that humans have	·
f a magnet	I know that electricity can be generated by the	be reflected		·
	can be generated by the			·
				' '
	Jan and willa	I KIIOW LIIAL SIIAUOWS	skeletons to support and	
that like ends		are caused by solid	protect them	I know that leaves are used by the plant to
agnet repel	I know that plastic is an	objects blocking light	•	expel oxygen
	insulator	, 00	I know that humans and	70
that some		I know that shiny	animals have different	I know that plants have male and female
are attracted	I know that electricity	surfaces reflect light	types of skeletons	parts
gnets	will travel through a	better		
	conductor		I know that muscles	I know that there are 5 key stages in a
that some	SES: 2,3,4,5	I know that looking	contract and relax to help	plants life cycle
push and			us move	,
		damage my retina	SES: 2,3,4,5	I know that some plants produce flowers to
oull				help with pollination by insects
Duli		SES: 1,2,3,4,5		SES: 1,2,3,4,5
рι	ish and	ish and	directly at the sun can damage my retina	directly at the sun can damage my retina us move SES: 2,3,4,5

Scientific Enquiry Skills:

Year 4 A	Autumn 1	Autumn 2	Spring	Summer 1	Summer 2
Sound	El	lectricity	States of Matter	Human Systems	Living things and their habitats

vibration, sound	circuit diagram, symbol,	states, matter, solids, liquids, gases, water vapour,	digest,	organisms,
wave, volume, pitch,	voltage, cell/battery,	melt, freeze, evaporate, condense, precipitation	esophagus,	environment,
ear, particles,	resistance, current,		stomach, small	endangered, species,
soundproof,		I know that water changes states at 100 and 0	intestine, large	extinct, specimen,
vacuum, eardrum	I know that a circuit	degrees centigrade	intestine,	characteristics
	must be complete for		rectum	
I know that travels in	electricity to flow	I know the three states of matter are solids, liquids		I know plants and
waves		and gases	I know that	animals can be grouped
	I know that electricity		chewing is part	according to
I know that sound	runs from negative to	I know that evaporation and condensation are key	of the digestion	characteristics
travels through	positive in a circuit	stages of the water cycle	process	
liquids, solids and				I know vertebrates
gases	I know that a battery is	I know that particles are tightly grouped in solids	I know that	have a spine and
	a source of stored	and less so in liquids and gases	nutrients are	invertebrates don't
I know that sounds	electricity	SES: 1,2,3,4	stored in	
are made by			different foods	I know an environment
vibrations	I know that the unit of			can contain more than
SES: 2,3,4,5	measurement, volts, is		I know that	one habitat and that
	named after the		water and	humans can have
	scientist Volta.		nutrients are	positive and negative
	SES: 2,4,5		absorbed	impacts on them
			through the small and large	SES: 1,2,3,4,5
			intestines	
			SES: 3,4,5	
			JLJ. 3,4,J	

Scientific Enquiry Skills:

Year 5	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer
	Properties and	Forces	Rocks and soils	Living things and their	Animals including humans (including RSE)
	changes in materials			habitats	
		forces, gravity,	Igneous, sedimentary,		fertilization, gestation, reproduce, adolescence,
	Soluble, solvent,	gravitational pull,	metamorphic, magma,	asexual reproduction,	puberty, menstruation, adulthood, life
	reversible, dissolve,	weight, mass, air	lava, permeable,	fertilise, gestation, life	expectancy, metamorphosis
	irreversible, filter	resistance, water	impermeable,	cycle, pollination,	
	variables, mixture	resistance, buoyancy,	fossilisation, erosion	sexual	I know that birds, mammals, insects and
		streamlined,			amphibians share some similarities in their life
	I know that some	mechanism	I know the three	I know that plants can	cycles
	changes are		different types of	reproduce sexually	
	irreversible	I know that weight is	rocks are igneous,	and asexually	I know that there are 6 stages to human
		the measurement of	sedimentary,		development
	I know that	gravity acting on a	metamorphic.		
	irreversible changes	subject			

produce new materials I know that independent variables need to be controlled to ensure a fair test I know that some substances dissolve to make a solution I know that water is known as the universal solvent SES: 1, 3, 4, 5	I know that mass is the amount of material an item is made of I know that friction slows an object I know that having a larger surface area increases the effects of air resistance I know that streamlined objects are affected less by water resistance and air resistance SES: 2,3,4,5	I know soils are formed from different types of matter I know that some rocks are natural and some are man made I know that fossils form in different ways I know there are different processes which make different types of fossils I know that Mary Anning was an important palaeontologist SES: 1, 2, 3, 4, 5	I know that plants use flowers to attract pollinating insects I know that Jane Corden was an influential botanist SES: 1,2,3,5	I know that hormones have physical, mental and emotional influences during puberty I know that boys produce semen I know that girls produce an egg I know that humans have a gestation period of nine months SES: 1, 2, 5
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Scientific Enquiry Types:

Year 6	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Light	Habitats – Classification	Earth and Space		Evolution and inheritance	Human Systems
	source, prism,	species, micro-	sun, star, moon, planet,	sphere, spherical	offspring, inheritance,	blood vessels,
	spectrum,	organisms,	bodies, satellite, orbit, rotate, axis		variations,	heart, circulatory
	translucent,	characteristics,			characteristics,	system,
	transparent, pupil,	taxonomy, classify,	I know that the Earth and other planets orbit		adaptation, habitat,	oxygenated,
	retina	bacteria, microscope,	the Sun		environment, evolution,	deoxygenated,
		classify			natural selection,	drug, alcohol,
	I know that light		I know that the moon or	bits Earth	adaptive traits, inherited	nutrients
	travels in straight	I know that Carl			traits	
	lines	Linnaeus compiled a	I know that night and da	y happen due to the		I know that
		scientific classification	Earth's rotation on its ax	ris	I know that Charles	humans have an
	I know that light	system			Darwin was the first	internal skeleton
	travels from a		I know that it takes 365.	25 days for the Earth to	scientist to explain the	
			orbit the Sun		ideas of evolution.	