





Science C	Curriculum Document: EYFS w	rith links to Y1			- I II SC Irust	
Key concepts: Knowledge	Plants, animals including humans, habitats, evolution and inheritance Everyday materials, rocks, states of matter, properties and changes of materials Light, forces, magnets, sound, electricity, earth and space (KS2)				ey drivers: languag	
$\rightarrow$					development (& outdoor learning)	
Key concepts: Skills/enquiry	concluding, observing, identifying and classifying, measuring, testing,and classifying things (noticil differences), comparative and		-	<i>EYFS key skills:</i> Observe, curiosity, explore, ask questions sort, notice similarities, differences, patterns & change (EYFS/DM/CoEL)		
Key concept: Building science capital	Year 1: Zoo visit, science lab, planting, growing, eating					
	EYFS: See below – in red In addition, explore any science related events/developments through the year, visitors					
Y1	Seasonal change	Animals including humans	Plants	Everyday materials	Light, forces	
programme of	Observe and talk about changes	Identify and name a variety of common	Identify and name a variety of	Distinguish between an	(KS2)	
study (nc)/	across the 4 seasons	animals including fish, amphibians,	common wild and garden plants,	object and the material fro	m	
units	Observe and describe different	reptiles, birds & mammals	including deciduous and evergreen	which it is made		
	Observe and describe different types of weather?	Identify and name a variety of common	trees	Identify and define a variet	y	
		animals that are carnivores, herbivores		of everyday materials		
Composite	Can you associate weather with	and omnivores		Describe the physical		
knowledge	the seasons?	Describe and compare the structure of a		properties of everyday		
		Describe and compare the structure of a variety of common animals		materials		
		Identify parts of the human body and		Compare and group a varie	ty	
		say which part is associated with each sense		of everyday materials		
EYFS (end of	Name and describe the 4	Name a variety of common animals –	Identify and name the trees and	Describe materials – wood	<b>.</b> .	
Reception)	seasons & associated weather -	classify by type – bird, fish, mammal,	plants in our forest and outdoor	card, rock - properties	sun, moon (&	
Composite		reptile	areas Observe, describe and draw	Describe differences in	other planets) Talk about	
knowledge		Know about certain habitats – logpiles and	plants/trees/flowers etc.	materials and changes e.g.	attraction and	
		which animals live there etc.		during cooking, ice melting		
		Know stages/key features of & describe		etc.	and light e.g.	

EYFS: ELG The Natural World	Understand some important processes and changes in the natural world around them, including the seasons	life cycles of butterfly, chicks (see year 2) Identify main parts of snails, stick insects, fish & common animals Identify main human body parts Explore the natural world around them, ma pictures of animals and plants Know some similarities and differences betw and contrasting environments, drawing on t read in class	ween the natural world around them	Understand some important processes and changes including changing states of matter.	torches
Early Years – Ke	v experiences and learning (		Skills and enquiry types in <b>bold.</b>	Science capital in red	
	Seasonal change	Animals including humans	Plants	Everyday materials	Light/forces/space
TWOs	Outdoor experiences – puddle jumping, leaf collecting, snow and ice exploration etc.	Animal handling – exotic (Autumn) Observing and caring for Giant African Land Snails stick & fish Learn body parts – vocab e.g through singing and games (all year groups)	Planting bulbs and veg and looking after growing plants	Explore materials with different textures – incl sensory wall Cooking – observe changes, adult model language	
Nursery	Weekly forest visits – experience nature and changes Weather Text link: We're going on a Bear Hunt (Autumn) Weather Text link: Pirate Feast (summer) observe/draw/photograph tree through the year Text link: The Tree (supporting text)	Animal handling – exotic (Autumn) Text link: Dear Zoo (Autumn) – animal names and features Life cycles - Chicks hatching (Spring) Birds nests & eggs (Spring/summer) Caterpillars to Butterflies (Summer) Tadpoles to frogs (pond) (summer) Observing changes over time Text Link: Hungry Caterpillar Adult led observational drawing Observing and caring for Giant African Land Snails & fish Pond dipping – observing, talking about and identifying pond life (use sign) Name body parts – e.g through singing and games (all year groups) Text Link: Red Riding Hood - senses	Vegetable patches' Planting bulbs and vegetables <b>Text link:</b> Jack and the Beanstalk/Jaspers Beanstalk (Spring) Forest visits – explore trees and other plants/flowers	Potion making (Halloween link) – combining ingredients, <b>observe</b> <b>changes</b> – use pipettes etc. Regular cooking – <b>observe</b> <b>and describe</b> changes in materials, liquids and solids – melting chocolate, cooking eggs. Making playdough (all year groups) Porridge making <b>Text link:</b> <b>Goldilocks</b> <i>Links to: KS2 – states of</i> <i>matter (solids &amp; liquids)</i>	Explore forces – magnets, floating and sinking Explore torches in the dark
Reception	Weekly forest visits - experience nature and changes Observe and talk about seasons and weather as part of daily	Animal handling (Autumn) Life cycles - Chicks hatching (Spring 2) Caterpillars to Butterflies (Summer) Adult led observational drawing	Forest visits – identify trees, flowers and other plants Text Link: Errol's Garden (Summer	Porridge making <b>Text link:</b> <b>Goldilocks</b> Potion making (Halloween link) – combining	<b>Text Link:</b> Here we are, Astro Girl (Autumn) – Space – earth, moon

	routine Text link: The Tree (supporting text)	Observing and caring for Giant African Land Snails & fish Pond dipping – observing, talking about and identifying pond life. Use pondlife identification sign Mini beast exploration, wormeries - Text link: Yucky worms (summer) Name body parts – e.g through singing and games (all year groups) Self portraits (Reception) – art link – text 'Here we are'	1) - planting Adult led observational drawing 'Vegetable patches' Planting bulbs and vegetables	ingredients, watching changes – use pipettes etc. <b>Text link:</b> Room on the Broom (Autumn) <b>Text links:</b> Blue Penguin, The Snowman - Ice/melting Cooking, making playdough	Rocket making – bicarb & vinegar <b>Text Link:</b> Astro Girl (History link: Neil ArmstrongY1)
Early Years cont	-	ent/opportunities (independent and			
	Seasonal change	Animals including humans	Plants	Everyday materials	Light/forces/space
All on going through year – specific emphasis on plants Spring/ Summer Opportunities for recall through sharing Learning Journals. Also photo books, story and information books. Key learning revisited through year. Continuous provision/ investigation areas always accessible	Outdoor areas – used throughout the year, in all weathers, including forest area. <b>Observe</b> and experience seasonal changes – e.g leaves/trees (all year groups) <b>Explore</b> weather – first hand experiences - windmills, kites, streamers etc. on windy days, puddles on wet days, ice and snow in winter etc. (all year groups) Gardening & growing vegetables, flowers and other plants (all year groups)	Investigation areas in all year groups, all classrooms - Giant African Land Snails, fish <b>Observe</b> , feed and look after our animals <b>Non-fiction books</b> available as part of continuous provision. Children taught vocabulary and names. Observational drawings & opportunities to <b>record</b> <b>findings</b> (all year groups). Observe and talk about alive and dead – where appropriate! <b>Scientific equipment – magnifiers</b> etc. available Science and investigation areas outside – <b>range of equipment available –</b> <b>magnifiers, identification cards</b> (minibeasts, leaves, flowers) etc. Mini beast homes outside – logpiles, bug houses etc. 'Family books' – look at regularly with children – discuss changes since they were babies. Name body parts – e.g through singing and games (all year groups)	Investigation areas – plants, cacti – care for (see 'animals') Forest – <b>exploring</b> plants, including flowers and trees (all year groups) – use tree identification sign	Woodwork areas in Nursery and Reception (D&T link) Junk modelling opportunities at creative workshop – variety of materials available (all year groups) Mud kitchens – all year groups – mixing soil and water etc. <b>observing</b> changes (all year groups) Water and sand play inside and outside – floating and sinking, <b>exploring</b> flow etc. (all year groups) Natural materials –, including shells Rocks/stones/crystals etc. available for exploration in investigation areas <b>Explore</b> snow/ice in winter	Magnets – available in investigation areas for <b>exploration</b> (N & R) <i>Links to: Forces</i> <i>and magnets</i> (Y3) Torches and dark areas available for <b>exploration</b> (N & R) <i>Links to: Light</i> (Y3) Marble runs - build and use (N&R)

		etc. (all year groups)						
Seamless provision	on: We offer certain experiences th	roughout our provision from TWOs to Recept	ion, allowing children to revisit and build	d on their learning. The provision	on is progressive -			
experiences are d	experiences are developmentally appropriate at each stage, and step up in levels of challenge/language/vocabulary as children move through the year group							
Examples of adult	t role during continuous provision							
Introduce vocabu	Introduce vocabulary to enable children to talk about their observations and experience							
Pose open ended	questions "how can we" "what w	vould happen if" etc. to encourage explorati	on and prediction					
Кеу	Seasonal change	Animals including humans	Plants	Everyday materials	Light/forces/space			
Vocabulary	Spring, summer, autumn,	Human body parts – eyes, nose, mouth,	Specific vocab	Hard/soft, stretchy,	Earth, moon, sun,			
, ,	winter, hot, cold	arms, legs	Names of flowers and trees found	rough/smooth, bendy	mars, Saturn			
	Weather vocab – rain, wind,		in outdoor area – daisy, dandelion,					
	snow, ice	Animal names & body parts – ears, tail,	daffodil, tulip, oak, plane, lime, ash,	Melt, change	Attract, repel			
		chrysalis, cocoon, caterpillar, butterfly	oak					
			Concept vocab					
			Plant parts – root, stem, leaf					
			Bulb, seed					