



Science Curriculum/Progression Map: EYFS links to Y1

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) Working scientifically skills: Scientific enquiry: EYFS key skills:				y drivers: oracy & tdoor learning	
Skills/enquiry	Questioning, predicting, concluding, observing, iden and classifying, measuring, recording	Observing changes over timetifyingand classifying things (noticitesting,differences), comparative ar	Observing changes over time, noticing patterns, grouping and classifying things (noticing similarities and differences), comparative and fair testing, finding things out using secondary sources of information (researching)		Observe, curiosity, explore, ask questions, sort, notice similarities, differences, patterns & change (EYFS/DM/CoEL)	
Key concept: Building science capital	Year 1: EYFS: See below – in red In addition, explore any science related events/developments through the year (e.g. Mars landing), visitors					
Y1	Seasonal change	Animals including humans	Plants	Everyday materials	Light, forces	
programme of study (nc)/ units Composite knowledge	Observe and talk about changes across the 4 seasons Observe and describe weather associated with the seasons	Identify and name a variety of common animals including fish, amphibians, reptiles, birds & mammals Identify and name a variety of common animals that are carnivores, herbivores and omnivores Describe and compare the structure of a variety of common animals Identify parts of the human body and say which part is associated with each sense	Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	Distinguish between an object and the material fro which it is made Identify and define a variet of everyday materials Describe the physical properties of everyday materials Compare and group a varie of everyday materials	(KS2) y	
EYFS (end of	Name and describe the 4 seasons & associated weather -	Know about certain habitats – logpiles and which animals live there etc.	Identify and name the trees and plants in our forest and outdoor	Describe materials – wood, card, rock - properties	Recognise earth, sun, moon (& other planets)	

EYFS: ELG The Natural World	Understand some important processes and changes in the natural world around them, including the seasons	 Explore the natural world around them, making observations and drawing pictures of animals and plants 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 		Understand some important processes and changes including changing states of matter.	
Early Years – Ke	ey experiences and learning (adult led) (component knowledge).	Skills and enquiry types in bold .		1
	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 insects & 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) Text link: Stick Man (Autumn) Weather Text link: Pirate Feast (summer) Each class as a 'class tree' observe/draw/photograph through the year Text link: The Tree	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 Text link: Jack and the Beanstalk/Jaspers Beanstalk (Spring) Forest visits – explore trees and other plants/flowers	Potion making (Halloween link) – combining ingredients, observe changes – use pipettes etc. Regular cooking – observe and describe changes in materials, liquids and solids – melting chocolate, cooking eggs. Making playdough (all year groups) Porridge making Text link: Goldilocks <i>Links to: KS2 – states of</i> <i>matter (solids & liquids)</i>	Explore forces – magnets, floating and sinking
Reception	Weekly forest visits - experience nature and changes Observe and talk about seasons and weather as part of daily routine	Animal handling (Autumn) Life cycles - Chicks hatching (Spring 2) Caterpillars to Butterflies (Summer) Adult led observational drawing Observing and caring for Giant African	Forest visits – identify trees, flowers and other plants Compost making (Reception, Autumn) Text Link: Errol's Garden	Porridge making Text link: Goldilocks Potion making (Halloween link) – combining ingredients, watching changes – use pipettes etc.	Text Link: Here we are, Astro Girl (Autumn) – Space – earth, moon Rocket making – bicarb & vinegar
	Each class as a 'class tree' observe/draw/photograph through the year (make a book)	Land Snails & fish Pond dipping – observing, talking about and identifying pond life. Use pondlife	(Reception – Summer 1) - planting Adult led observational drawing	Text link: Room on the Broom (Autumn)	Text Link: Astro Girl (History link: Neil ArmstrongY1)

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

Seamless provision: We offer certain experiences throughout our provision from TWOs to Reception, allowing children to revisit and build on their learning. The provision is progressive - experiences are developmentally appropriate at each stage, and step up in levels of challenge/language/vocabulary as children move through the year groups.

Examples of adult role during continuous provision

Introduce vocabulary to enable children to talk about their observations and experiences Pose open ended questions "how can we... what would happen if ..." to encourage exploration and prediction

Кеу	Seasonal change	Animals including humans	Plants	Everyday materials	Light/forces/space
Vocabulary	Concept vocab	Concept vocab	Specific vocab	Hard/soft, stretchy,	Earth, moon, sun,
· · · · · · · · · · · · · · · · · · ·	Spring, summer, autumn,	Body parts – head, neck, arms, legs,	Names of flowers and trees found	rough/smooth, bendy	mars, Saturn
	winter, hot, cold	elbows, knees, face, ears, eyes, nose, hair,	in outdoor area – daisy, dandelion,		
	Weather vocab – rain, wind,	mouth, teeth	daffodil, tulip, oak, plane, lime, ash,	Concept vocab	Concept vocab
	snow, ice		oak	Melt, change	Attract, repel
		Animal names & body parts – ears, tail,	Concept vocab		
		chrysalis, cocoon, caterpillar, butterfly	Plant parts – root, stem, leaf		
			Bulb, seed		