

Galliard Science Curriculum 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)				<i>Key drivers: oracy &amp; outdoor learning</i>	
Key concepts: Skills/enquiry	Working scientifically skills: Questioning, predicting, concluding, observing, identifying and classifying, measuring, testing, recording		Scientific enquiry: 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)		<b>EYFS key skills:</b> 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 programme of study (nc)/ units Composite knowledge	Seasonal change Observe and talk about changes across the 4 seasons Observe and describe weather associated with the seasons	Identify ar animals in reptiles, b Identify ar animals th and omniv Describe a variety of Identify	including humans and name a variety of common cluding fish, amphibians, irds & mammals and name a variety of common nat are carnivores, herbivores vores and compare the structure of a common animals parts of the human body and part is associated with each	Plants Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees	<b>Everyday materials</b> Distinguish between an object and the material which it is made Identify and define a var of everyday materials Describe the physical properties of everyday materials Compare and group a var of everyday materials	(KS2) from riety
EYFS (end of Reception) Composite knowledge	Name and describe the 4 seasons & associated weather -	Know abo which anir Know stag life cycles fish & com	ut certain habitats – logpiles and mals live there etc. ges/key features of & describe of butterfly, chicks, stick insects, mon animals ain human body parts	Identify and name the trees and plants in our forest and outdoor areas Observe, describe and draw plants/trees/flowers etc.	Describe materials – wo card, rock - properties Describe differences in materials and changes e during cooking, ice melt etc.	sun, moon (& other planets) Talk about e.g. attraction and

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, ma pictures of animals and plants Know some similarities and differences bet and contrasting environments, drawing on read in class	Understand some important processes and changes including changing states of matter.		
Early Years – Ke			Skills and enquiry types in <b>bold</b> .		1
	Seasonal change	Animals including humans	Plants	Everyday materials	Light/forces/space
TWOs	Outdoor experiences – puddle jumping, leaf collecting, snow and ice exploration, flowers growing, sunshine etc.	Animal handling (Autumn) Observing and caring for chicks, caterpillars and butterflies 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 Manipulating playdough	Push buttons / pull toys
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: All About the Weather Observe/draw/photograph through the year Text link: Handas Surprise	Life cycles - Chicks hatching (Spring) 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 chicks, caterpillars and butterflies Name body parts – e.g through singing and games (all year groups) Text Link: Goldilocks and the 3 Bears Senses: Look, listen, taste, touch, smell	Planting bulbs and vegetables <b>Text link:</b> Jack and the Beanstalk/Jaspers Beanstalk (Spring) Forest visits – explore trees and other plants/flowers	Eid/Diwali cooking – 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) Cook vegetables Text link: Oliver's Veg Book Links to: KS2 – states of matter (solids & liquids) Text link: Little Red Hen Cooking: making bread	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	Life cycles - Caterpillars to Butterflies (Summer) Adult led observational drawing Observing and caring for butterflies Mini beast exploration - Text link: Yucky worms Name body parts – e.g through singing and games (all year groups)	Forest visits – identify trees, flowers and other plants <b>Text Link:</b> Errol's Garden (Reception – Summer 1) - planting Adult led observational drawing 'Vegetable patches' Planting bulbs and vegetables	Potion making (Halloween link) – combining ingredients, watching changes – use pipettes etc. Cooking, making playdough	Text Link: Astro Girl (Autumn) – Space – earth, moon Rocket making – bicarb & vinegar Text Link: Astro Girl (History link: Neil ArmstrongY1)

Early Years con	tinuous provision - environm	Self portraits (Reception) – art link – ent/opportunities (independent and	adult supported)		
	Seasonal change	Animals including humans	Plants	Everyday materials	Light/forces/space
All on going	Outdoor areas – used	Investigation areas in all year groups, all	Investigation areas – plants	Junk modelling	Magnets –
through year —	throughout the year, in all	classrooms		opportunities at creative	available in
specific emphasis	weathers, including forest area.	Observe, feed and look after our animals	Forest – <b>exploring</b> plants, including	workshop – variety of	investigation area
on plants Spring/	Observe and experience	Non-fiction books available as part of	flowers and trees (all year groups)	materials available (all year	for exploration (N
Summer	seasonal changes – e.g	continuous provision. Children taught	<ul> <li>use tree identification sign</li> </ul>	groups)	& R)
	leaves/trees (all year groups)	vocabulary and names. Observational			Links to: Forces
		drawings & opportunities to record		Mud kitchens – all year	and magnets (Y3)
	Explore weather – first hand	findings (all year groups). Observe and		groups – mixing soil and	
	experiences - windmills, kites,	talk about alive and dead – where		water etc. observing	Marble runs - build
Opportunities	streamers etc. on windy days,	appropriate!		changes (all year groups)	and use (N&R)
for recall	puddles on wet days, ice and	Scientific equipment – magnifiers etc.			
through sharing	snow in winter etc. (all year	available		Water and sand play –	
Learning	groups)			floating and sinking,	
Journals. Also		Science and investigation areas outside –		exploring flow etc. (all year	
photo books,	Gardening & growing	range of equipment available –		groups)	
story and	vegetables, flowers and other	magnifiers, identification cards			
information	plants (all year groups)	(minibeasts, leaves, flowers) etc. Mini		Natural materials –,	
books. Key		beast homes outside – logpiles, bug		including shells	
learning revisited		houses etc.		Rocks/stones/crystals etc.	
through year.				available for exploration in	
Continuous		Drawing opportunities throughout		investigation areas	
provision/		provision, including outside – clipboards			
investigation		etc. (all year groups)		Explore snow/ice in winter	
areas always					
accessible					
Seamless provision	: We offer certain experiences thr	u Dughout our provision from TWOs to Reception	on, allowing children to revisit and built	d on their learning. The provision	on is progressive -
	•	stage, and step up in levels of challenge/lang		<b>e</b> .	
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<u>Examples of adult role during continuous provision</u> 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	