

St James' Church of England Primary School What Subject Leaders Need to Know



EYFS Science

The EYFS framework is structured very differently to the national curriculum as it is organised across seven areas of learning rather than subject areas. The aim of this document is to help subject leaders to understand how the skills taught across EYFS feed into national curriculum subjects.

This document demonstrates which statements from the 2020 Development Matters are prerequisite skills for science within the national curriculum. The table below outlines the most relevant statements taken from the Early Learning Goals in the EYFS statutory framework and the Development Matters age ranges for Three and Four-Year-Olds and Reception to match the programme of study for science.

The most relevant statements for science are taken from the following areas of learning:

- Communication and Language
- Personal, Social and Emotional Development
- Understanding the World

In planning and guiding what children learn, practitioners must reflect on the different rates at which children are developing and adjust their practice appropriately, referring to the Characteristics of Effective Teaching and Learning

These are: **playing and exploring** – children investigate and experience things, and 'have a go'; **active learning** – children concentrate and keep on trying if they encounter difficulties, and enjoy their achievements for their own sake; **creating and thinking critically** – children have and develop their own ideas, make links between ideas, and develop strategies for doing things.

In addition, the Prime Areas of Learning (Personal, Social and Emotional Development, Communication and Language and Physical Development) underpin and are an integral part of children's learning in all areas.

Three and Four-Year-	Communication and Language	Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"
Olds (Nursery)	Personal, Social and Emotional Development	Make healthy choices about food, drink, activity and toothbrushing.
	Understanding the World	 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.
		 Explore how things work. 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 environment and all living things. Explore and talk about different forces they can feel. Talk about the differences between materials and changes they notice.
Reception	Communication and Language	 Learn new vocabulary. Ask questions to find out more and to check what has been said to them. Articulate their ideas and thoughts in well-formed sentences. Describe events in some detail. Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. Use new vocabulary in different contexts.
	Personal, Social and Emotional Development	 Know and talk about the different factors that support their overall health and wellbeing: regular physical activity healthy eating toothbrushing having a good sleep routine

			 being a safepedestrian
	Understanding th	ne World	 Explore the natural world around them.
			 Describe what they see, hear and feel while they are outside.
			 Recognise some environments that are different
			 Understand the effect of changing seasons on the natural world
	Communication	Listoping	 Make comments about what they have heard and ask questions to clarify
ELG	and Language	Listening, Attention and Understanding	their understanding.
(On track –	Personal, Social	Managing Self	 Manage their own basic hygiene and personal needs, including dressing,
meeting	and Emotional	00	going to the toilet and understanding the importance of healthy food
ARE)	Development		choices.
	Understanding	The Natural	Explore the natural world around them, making observations and
	the World	World	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 in the natural world
			around them, including the seasons and changing states of matter.
YFS End Poi	nts: Understanding	g the world involv	ves guiding children to make sense of their physical world and their
	his extends their fa cabulary will suppo		ords that support understanding across domains. Enriching and widening comprehension.
<u>Autumn</u> Marvellous	Me and Colour N	My World	
	ion and Language		
		nstructions and b	eginning to follow two-step instructions.
	-		ately to a variety e.g. Why? Do you think? What?
	ask questions to c		
	•		rker time, e.g. what they did at the weekend, what their likes and dislikes a re
	s and ideas about		
-	cial and Emotional		
			ey need to complete a task of their own choosing.
			s no one else like them.
	-		ces between themselves and their friends.
			d know that the importance of hand washing.
	ng the World	-	
Children can	observe changes i	in the local enviro	onment throughout autumn and winter.
Children kno	w that there are for	our seasons.	
Children can	name the seasons	s and discuss feat	ures of each.
Children kno	w and can describ	e different weath	ners.
			different countries.
			y, e.g. eating healthy food, exercising, screen-time, etc.
	w the names of bo		
	w that we have a s		
	explore their five		
		n features using a	mirror. They can then make pictures/paintings using the correct colours.
Science Skills			
<u>Biology</u>			
Jhildren knov	w how to keep the	ir bodies healthy	, e.g. eating healthy food, exercising, screen-time, etc.

Children know how to keep their bodies healthy, e.g. eating healthy food, exercising, screen-time, etc.

Children know the names of body parts.

Children know that we have a skeleton.

Children can explore their five senses.

Children can observe changes in the local environment throughout autumn and winter.

Children know that there are four seasons.

Children can name the seasons and discuss features of each.

Children can observe their own features using a mirror. They can then make pictures/paintings using the correct colours. Children can manage their toileting routines and know that the importance of hand washing.

<u>Chemistry</u>

Physics

Children know and can describe different weathers.

Children know that weather can be different in different countries.

<u>Spring</u>

Traditional Tales and Growth & Change

<u>Communication and Language</u> THESE WILL BE COVERED ACROSS ALL SCIENCE SKILLS

-Children can retell a range of stories in more detail in small world and role play.

-Children will ask relevant questions to clarify the meaning of what they see and hear.

-Children will articulate their thoughts and ideas in well-formed sentences.

-Children use full sentences to talk about their feelings, experiences and ideas. They usually use the correct tense.

-Children participate well in a whole class, smaller group and one to one situations.

Personal, Social and Emotional Development

-Children know that everyone is different and everyone is special. They know that different people are good at different things.

-Children can brush their teeth for 2 minutes with minimal support.

-Children have confidence in their own abilities.

-Children understand why they need a healthy, balanced diet.

-Children know why they need to exercise.

-Children are confident to try new activities and they can ask for help if they need it.

Understanding the World

-Children know that plants grow from a seed.

- -Children know that plants need water, soil and sun to grow.
- -Children can name different parts of a plant.
- -Children can explore and describe some different materials.
- -Children can use their senses to describe different materials.
- -Children will use their knowledge of different materials to design their own castle.
- -Children will explain why they have chosen the materials they have.
- -Children will explore mirrors, magnifying glasses and magnets.
- -Children will be able to discuss mirrors, magnifying glasses and magnets. They will be able to say what they are used for.

-Children know that some things can change, e.g. water into ice, chocolate can be melted, etc. Ice melting experiment.

-Children know that shadows are an absence of light.

Science Skills

Biology

Children know that plants grow from a seed.

Children know that plants need water, soil and sun to grow.

Children can name different parts of a plant.

Children can use their senses to describe different materials.

Children know that everyone is different and everyone is special. They know that different people are good at different things.

Children can brush their teeth for 2 minutes with minimal support.

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Children know why they need to exercise.

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Chemistry

Children know that some things can change, e.g. water into ice, chocolate can be melted, etc. Ice melting experiment. Children know that shadows are an absence of light.

Physics

Children can explore and describe some different materials.

Children will use their knowledge of different materials to design their own castle.

Children will explain why they have chosen the materials they have.

Children will explore mirrors, magnifying glasses and magnets.

Children will be able to discuss mirrors, magnifying glasses and magnets. They will be able to say what they are used for.

<u>Summer</u>

Animals & Journeys

Communication and Language THESE WILL BE COVERED ACROSS ALL SCIENCE SKILLS

-Children can retell a range of stories in more detail in small world and role play.

-Children will ask relevant questions to clarify the meaning of what they see and hear.

-Children will articulate their thoughts and ideas in well-formed sentences.

-Children use full sentences to talk about their feelings, experiences and ideas. They usually use the correct tense.

-Children participate well in a whole class							
	nent THESE WILL BE COVERED ACROSS ALL	SCIENCE SKILLS					
-Children can brush their teeth for 2 minutes.							
	ination to do well in their learning and acti	vities.					
-Children can regulate their own behavior	-						
-Children can follow instructions with mu	ltiple steps.						
Understanding the World							
	ent animals and be able to use specific voc	abulary to describe them.					
-Children know how to take care of a pet.							
-Children know how plants grow and can	-						
-Children will grow their own plant from a							
	nge, e.g. water into ice, chocolate can be m	elted, etc. Children will be able to explain					
and describe these changes.	. /						
-Children will explore a variety of materia							
	ugh different objects. They will be able to c	escribe what is happening.					
Science Skills							
Biology	and a simulation of the state o						
	ent animals and be able to use specific voca	bulary to describe them.					
Children know how to take care of a pet.	valain this to an adult						
Children know how plants grow and can e	•						
Children will grow their own plant from a Chemistry	эсси.						
	ge, e.g. water into ice, chocolate can be me	alted etc Children will be able to evoluin					
and describe these changes.	$_{\rm Se}$, e.g. water into ite, thotolate tall be me	area, etc. children win be able to expidit					
Physics							
Children will explore a variety of material	s/objects that float and sink						
	igh different objects. They will be able to d	escribe what is hannening					
Scientific Enquiry (also linked to CofETL)	gir amerent objects. mey win be able to a						
	ortunities for outdoor play and exploration						
	s to foster curiosity and give children freed						
world around them during hands-on expe							
-Encourage focused observation of the na							
_		de, including plants and animals.					
-Listen to children describing and commenting on things they have seen whilst outside, including plants and animals. -Encourage positive interaction with the outside world, offering children a chance to take supported risks, appropriate to							
-Encourage positive interaction with the o	outside world, offering children a chance to						
-Encourage positive interaction with the or themselves and the environment within w	-						
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<u>Continuous Provision</u> – available throughout the day for both focussed and self-chosen learning

- Experience, observe and talk about different plants and their features
- Interesting objects that the children can observe and find out how they work
- Explore objects using their senses to find out about how things feel, look, sound, taste and smell
- After physical experiences, observe adults and then use vocabulary to describe: taste – bitter, sweet, salty, sour, tangy sound – loud, quiet, shout, whisper, hum, ring, bang, rustle texture – soft, hard, spiky, smooth, sharp, sticky, rough, gooey smell – perfume, fresh linen, manure, sweet, flowery
- Junk materials to build and construct models
- Ways of joining tape, glue, staples, string, split pins, clips, paperclips, pipe cleaners
- Range of tools scissors, food preparation tools, peeler, grater, rolling pin, safety scissors, safety knives, clay tools, playdoh tools, hole punch
- Construct with purpose in mind create something which links to the learning/topic
- Paper and pencils/pens/crayons for making designs before constructing
- Paper and pencils/pens/crayons for drawing a simple picture of their model. Sticky notes for labels
- Discussions with the children about how they made their model, what they used and how they would improve it next time
- Make a large scale model collaboratively

Areas of Continuous Provision

Indoors

<u>Construction Area</u> – Building using different materials

<u>Creative</u> – range of opportunities to explore, observe and talk about materials and their properties – man made or natural. Materials: soft, hard, rough, smooth, fluffy, bumpy, slimy, sticky, wet, dry, stiff, bendy, crunchy. Possible activities: feely boxes, collections in pots/boxes, sorting by criteria, treasure baskets,

<u>Role Play</u> – senses in Home Corner. Different smelling flowers, fruit and vegetables to try at the kitchen table, different musical instruments for lullabies

<u>Malleable/Playdoh</u> – make own malleable materials and encourage to change how they appear (e.g. add glitter to homemade playdoh)

<u>Snack</u> –

<u>Small World</u> – interact with objects that move by pulling, pushing, wheeled vehicles, toys with moving parts. Discuss how they move and why they move

Mark Making/Writing - recording observations and findings - 'being a scientist'

<u>Reading</u> – Use books, photographs and technology to find out about the world in which they live

<u>Sand</u> – explore the texture of wet and dry sand. What is the best for making patterns in? What is best for a toy truck to lift? Explore real sand compared to mouldable sand, water resistant sand, etc. Explore the movement of sand using different equipment. Explore separating sand mixed with different objects e.g. sequins, rice, buttons or pebbles

<u>Water/Mud Kitchen</u> – Explore different ways in which water moves. Explore how water changes when different things are added e.g. oil, Geli Baff, food colouring, etc. Test a variety of objects made from different materials to see if they sink or float. Can children predict and then experiment which they think will sink or float.

Outdoors

<u>Large Construction</u> – explore and talk about the way our bodies move using vocabulary such as faster, slower, fast, slowly. Compare and contrast movement when building using construction materials. Talk about movements over/under construction materials

Role Play – science lab

<u>Water</u> – drainpipes, tubes, plastic bottles, pipettes, funnels, coloured water, glitter, separating mixtures <u>Outdoor/Woodland</u> – natural materials to be provided: leaves, sticks, logs, pebbles, stones

Outdoor Learning

- Access to the woodlands
- Welly walks
- Park trip
- Parent helpers for litter picking
- Snow walk
- Melting snow/ice outdoors
- Building a snowman
- Keeping hot chocolate warm outside
- Bird watching
- Create bird nest