

Learning in EYFS: What Science Subject Leaders Need to Know

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.

Science		
Three and Four- Year-Olds	Communication and Language	 Understand 'why' questions, like: "Why do you think the caterpillar got so fat?"
(Not on track – working below ARE)	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.

Reception	Personal, Social and Em	otional Development	 Know and talk about the different factors that support their overall healtheand wellbeing: regular physical activity healthy eating toothbrushing sensible amounts of 'screen time' having a good sleep routine being a safe pedestrian
	Understanding the Worl	d	 Explore the natural world around them. Describe what they see, hear and feel while they are outside. Recognise some environments that are different to the one in which they live. Understand the effect of changing seasons on the natural world around them.
ELG (On track - meeting	Communication and Language	Listening, Attention and Understanding	 Make comments about what they have heard and ask questions to clarify their understanding.
ARE)	Personal, Social and Emotional Development	Managing Self	 Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices.
	Understanding the World	The Natural World	 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 in the natural world around them, including the seasons and changing states of matter.

Ribblesdale Federation EYFS End Points

Understanding the world involves guiding children to make sense of their physical world and their community. The frequency and range of children's personal experiences increases their knowledge and sense of the world around them – from visiting parks, libraries and museums to meeting important members of society such as police officers, nurses and firefighters. In addition, listening to a broad selection of stories, non-fiction, rhymes and poems will foster their understanding of our culturally, socially, technologically and ecologically diverse world. As well as building important knowledge, this extends their familiarity with words that support understanding across domains. Enriching and widening children's vocabulary will support later reading comprehension.

> <u>Autumn</u> Journey into your imagination

Communication and Language	Pe	rsonal, Social and Emotional		Understanding the World		
communication and Language	rei	Development				
·		can select tools and resources that	Children can observe changes in the local environment throughout set autumn and winter.			
Children understand and can respond	they nee choosinc	d to complete a task of their own 1.	Children know that there are four seasons.			
		know that they are unique and	Children can name the seasons and discuss features of each.			
Children will ask questions to clarify	there is i	no one else like them.	Children know and can describe different weathers.			
nstructions.		can talk about similarities and		-		
Children will take part in discussions e.g.	friends.	es between themselves and their	Children know that weather can be different in different countries.			
what they did at the weekend, what their ikes and dislikes are, their thoughts and ideas			Children know how to keep their bodies healthy, e.g. eating healthy food, exercising, screen-time, etc.			
about various topics.	washing	1 3	Children know the	e names of body parts.		
			Children know the	at we have a skeleton.		
			Children can explo	ore their five senses.		
				rve their own features using a mirror. They can then ntings using the correct colours.		
		Science Skills				
Biology		Chemistry		Physics		
Children know how to keep their bodies healt eating healthy food, exercising, screen-time, e	J. J			Children know and can describe different weathers.		
Children know the names of body parts.				Children know that weather can be different in different countries.		
Children know that we have a skeleton.						
Children can explore their five senses.						
Children can observe changes in the local env hroughout autumn and winter.	ironment					
Children know that there are four seasons.						
Children can name the seasons and discuss fe each. Children can observe their own features using nirror. They can then make pictures/paintings the correct colours.	a					
Children can manage their toileting routines o :hat the importance of hand washing.	ind know					
-						
		<u>Spring</u> Farm to fork		•		
		Farm to jork				
Communication and Language		Personal, Social and Emotiona	l Development	Understanding the World		
THESE WILL BE COVERED ACROSS ALL SCIENCE SKILLS		Children know that everyone is differ is special. They know that different p		veryone Children know that plants grow from a seed. good at		
Children can follow 2-step instructions.		different things.		Children know that plants need water, soil and sun to grow.		
Children can ask why questions		Children can brush their teeth for 2 minimal support.	minutes with	Children can name different parts of a plant.		
Children can use complete sentences in their everyday talk.				Children can explore and describe some different materials.		
		Children understand why they need	- h lah			

Children are beginning to connect one idea or action	balanced o	liet.	Childre	en can use their senses to describe different
to another using connectives: and, because, then, but.			materi	
Children can describe events in detail and use	Children k	now why they need to exercise.	Childre	en will use their knowledge of different materials
sequencing words: before, next, after, then. The events will be heavily based on experiences in their own lives.		re confident to try new activities and they r help if they need it.	to desi	gn their own castle.
Children can use talk to help them work out problems				en will explain why they have chosen the als they have.
and possible solutions			Childre magne	en will explore mirrors, magnifying glasses and ts.
			glasses	en will be able to discuss mirrors, magnifying ; and magnets. They will be able to say what re used for.
			water i	en know that some things can change, e.g. into ice, chocolate can be melted, etc. Ice g experiment.
			Childre	en know that shadows are an absence of light.
		Science Skills		
Biology		Chemistry		Physics
Children know that plants grow from a seed.		Children know that some things can change water into ice, chocolate can be melted, etc.		Children can explore and describe some different materials.
Children know that plants need water, soil and sun to g	grow.	melting experiment.		Children will use their knowledge of different
hildren can name different parts of a plant.		Children know that shadows are an absence light.	e of	materials to design their own castle.
Children can use their senses to describe different mate		ugitt.		Children will explain why they have chosen the materials they have.
Children know that everyone is different and everyone They know that different people are good at different t				Children will explore mirrors, magnifying glasses and magnets.
Children can brush their teeth for 2 minutes with minim upport.	ıal			Children will be able to discuss mirrors,
Children have confidence in their own abilities.				magnifying glasses and magnets. They will be able to say what they are used for.
Children understand why they need a healthy, balanced	l diet.			
Children know why they need to exercise.				
Children are confident to try new activities and they ca Ielp if they need it.	n ask for			
		<u>Summer</u> Sun, Sea and Sand		
Communication and Language	Persona	al, Social and Emotional Development		Understanding the World
		an brush their teeth for 2 minutes.	Childre	en will make observations of different animals
KILLS		-		e able to use specific vocabulary to describe
5 5	THESE WI SKILLS	LL BE COVERED ACROSS ALL SCIENCE	Childre	en know how to take care of a pet.
		how perseverance and determination to do ir learning and activities.	Childre to an c	en know how plants grow and can explain this adult.
		an regulate their own behaviour in a variety t situations.	Childre	en will grow their own plant from a seed.
-		an follow instructions with multiple steps.	water i	en know that some things can change, e.g. into ice, chocolate can be melted, etc. Children able to explain and describe these changes.
Children participate well in a whole class, smaller				en will explore a variety of materials/objects tha nd sink.
group and one to one situations.				en will explore light travelling through different . They will be able to describe what is

Biologii	Chemistry	Physics
Biology	Chemistry	
uildren will make observations of different animals Id be able to use specific vocabulary to describe em.	Children know that some things can change, e.g. water into ice, chocolate can be melted, etc. Children will be able to explain and describe these changes.	Children will explore a variety of materials/objection float and sink.
uildren know how to take care of a pet.		Children will explore light travelling through different objects. They will be able to describe what is happening.
hildren know how plants grow and can explain this an adult.		nappennig.
hildren will grow their own plant from a seed.		
cientific Enquiry (also linked to CofETL)	1	1
xperiences. Encourage focused observation of the natural world. Listen to children describing and commenting on thir Encourage positive interaction with the outside world	iriosity and give children freedom to touch, smell and h	inimals.
/hich they are in. Assessment		
Can children talk about and draw what they can see? Can children describe their environment and comment Can children describe what changes in each season?	on contrasting environments from books?	
ocabulary (
lants: tree, petals, trunk, fruit, branch, roots, leaves,	bulb. flowers, seed, stem	
nimals including humans: human, face, hair, leg,	elbow, arm, head, toes, ear, hands, eye, fingers, ankle,	wrist, hips, back, knee, mouth, nose, animal, fish, birds
easons: Summer, Spring, Autumn, Winter, day, dark	e, light, night, season, moon, sun	
and Frank and some Frank array also to a		
orces, Earth and space: Earth, moon, planet, space	e, sun, star	
ound, light and electricity: loud, quiet, volume, so	bund	
ound, light and electricity: loud, quiet, volume, so Continuous Provision – available throughout the do	ound ay for both focussed and self-chosen learning	
 cound, light and electricity: loud, quiet, volume, so continuous Provision – available throughout the do Experience, observe and talk about different 	ound ay for both focussed and self-chosen learning t plants and their features	
 Continuous Provision – available throughout the do Experience, observe and talk about different Interesting objects that the children can observe 	ound ay for both focussed and self-chosen learning t plants and their features serve and find out how they work	
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mouldable sand, water resistant sand, etc. Explore the movement of sand using different equipment. Explore separating sand mixed with different objects e. geequing rice, buttons or pebbles

Water/Mud Kitchen – 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

Large Construction – 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

<u>Role Play</u> – 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 (forest school/ bushtucker days)
- 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/ bird feeder

Key Questions – provide opportunities to develop curiosity, where adults can model questions and children can ask questions.

Describe

What is it like? How does ____ look, taste, feel, sound, smell? Can you show me...? Can you tell me about...? Can you tell me which...? Can you describe...?

What's happening? What's happening here? What happens when you...? Can you tell me what...? How does that work? What did you notice when you...?

Compare and contrast: What is the same about...? What is different...? Which ones...? Why?

Why it happened? Why did...? Why do you think...? Why do you think... is happening/happened? Can you tell me why...? Tell me why...? I Wonder

What could we do next? I wonder if...? What if...? What will happen if we...? How can you make...? How can you show...? How could we find out if...? Can you find another way that will...? Can you think of another way...? How could we improve...? Can you create/invent/design...?