



Science/Understanding the World EYFS

PLAN – support for science planning, assessment and resources: <https://www.planassessment.com/>

TAPS: https://pstt.org.uk/unique-resources/taps/?_sft_age_ranges=three-five

Science PROGRESSION in KNOWLEDGE: https://docs.google.com/document/d/1hri61UtxP9TDHPKpMWnZq2hXl8ipUK-g/edit?usp=drive_web&ouid=104586050837987232444&rtpof=true

Science PROGRESSION in WORKING SCIENTIFICALLY: <https://docs.google.com/document/d/1E2WidsJqKdX1D-br8YwHalSWyQqCds4k/edit?rtpof=true>

Science PROGRESSION in WORKING SCIENTIFICALLY objectives: <https://docs.google.com/document/d/1E2WidsJqKdX1D-br8YwHalSWyQqCds4k/edit>

Science PROGRESSION in VOCABULARY: https://docs.google.com/document/d/1bpUKRkixOdybZDnsq0zt0u370sSKf9rj/edit?usp=drive_web&ouid=104586050837987232444&rtpof=true

Science Vocabulary by year group: <https://drive.google.com/drive/folders/1h6G3G-i9PNBF-MeloVRKdO8JxkfVQ9u>

Early Years Foundation Stage Curriculum Endpoints

EYFS Nursery

Understanding of the World: Children at the expected level of development will: - 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.

- Repeat actions that have an effect.
- Explore materials with different properties.
- Explore natural materials, indoors and outside.
- 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.
- 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.
- Talk about the differences between materials and changes they notice.
- Explore and talk about different forces they can feel.

Nursery curriculum focus areas and endpoints, covered each year:

Animals, excluding humans

- Learn about the life cycles of animals
- Compare adult animals to their babies
- Observe how baby animals change over time

Living things and their habitats

- Explore the surrounding natural environment
- Explore natural objects from the surrounding environment

Humans

- Learn about the life cycles of humans
- Learn about how to take care of themselves
- Learn about their senses

Plants

- Grow plants

Materials, including changing materials

- Explore a range of materials
- Shape and join materials
- Combine and mix ingredients
- Change materials by heating and cooling, including cooking

Forces

- Feel forces
- Explore how things work
- Explore how objects/materials are affected by forces

Electricity

- Identify electrical devices
- Use battery-powered devices

Sound

- Listen to sounds
- Make sounds

Light

- Explore light sources
- Shine light on or through different materials

CURRICULUM A and CURRICULUM B

Curriculum A book spine

Curriculum B book spine

AUTUMN

AUTUMN 1:

DM: Begin to understand the need to respect and care for the natural and all living things.

DM: Talk about what they see using a wide vocabulary.

DM: Understand key features of the life cycle of a plant and animal.

- Animals excluding humans
- Humans
- Living things and their habitats

AUTUMN 2:

DM: Explore collections of materials with similar or/ or different properties.

DM: Explore how things work.

SPRING

SPRING 1:

DM: Talk about what they see, using a wide vocabulary.

DM: Understand key features of a life cycle.

DM: Explore how things work.

DM: Explore & talk about different forces they can feel.

DM: Explore materials with similar & different properties.

- Electricity
- Light
- Forces
- Human
- Living things

SPRING 2:

DM: Talk about what they see, using a wide vocabulary.

SUMMER

SUMMER 1:

DM: Talk about what they see, using a wide vocabulary.

DM: Understand key features of a life cycle.

DM: Plant seeds & care for growing plants.

- Humans
- Living things
- Forces vocab

SUMMER 2:

DM: Use all senses in hands on exploration of natural materials.

DM: Explore collections of materials with similar & or different properties.

	DM: Talk about what they see using a wide vocabulary. DM: Explore and talk about different forces they can feel. • Light • Electricity • Forces • Sound	DM: Understand key features of a life cycle. DM: Explore how things work. DM: Explore & talk about different forces they can feel. DM: Explore materials with similar & different properties. DM: Plant seeds & care for growing plants. • Electricity • Light • Forces • Human • Living things	DM: Differentiate between materials & changes they notice. DM: Explore materials with different materials. • Materials inc changing materials • Sound
EYFS Reception	Understanding of the World: Children at the expected level of development will: - 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. Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another. They make observations of animals and plants and explain why some things occur and talk about changes.		
	Reception curriculum focus areas and endpoints, covered each year:		
	<u>Animals, excluding humans</u> • Name and describe animals that live in different habitats. • Describe different habitats <u>Humans</u> • Describe people who are familiar to them • Learn about how to take care of themselves <u>Seasonal changes</u> • Play and explore outside in all seasons and in different weather Observe living things throughout the year	<u>Materials, including changing materials</u> • Explore a range of materials, including natural materials • Make objects from different materials, including natural materials • Observe, measure and record how materials change when heated and cooled • Compare how materials change over time and in different conditions <u>Light</u> • Explore shadows • Explore rainbows <u>Forces</u> • Explore how to change how things work • Explore how the wind can move objects • Explore how objects move in water	<u>Sound</u> • Listen to sounds outside and identify the source • Make sounds <u>Earth and space</u> • Learn about the Earth, Sun, Moon, planets and stars • Learn about space travel <u>Living things and their habitats</u> • Explore the plants in the surrounding natural environment • Explore the animals in the surrounding natural environment • Explore plants and animals in a contrasting natural environment
	AUTUMN	SPRING	SUMMER
	<u>Seasonal changes</u> • Play and explore outside in all seasons and in different weather • Observe living things throughout the year Weather: Learn about different seasons and create weather charts <u>Autumn</u> - Weather- What's the weather like during autumn? - observe autumn changes - Compare autumn leaves - Go on an autumn walk <u>Animals, excluding humans</u>	<u>Forces</u> • Explore how to change how things work • Explore how the wind can move objects • Explore how objects move in water Floating and Sinking: - Making own paper boats like in the story 'Storm Whale' - Investigating what items float/ sink and discover why <u>Animals, excluding humans</u> • Name and describe animals that live in different habitats. • Describe different habitats <u>Living things and their habitats</u>	<u>Seasonal changes</u> • Play and explore outside in all seasons and in different weather • Observe living things throughout the year <u>Earth and space</u> • Learn about the Earth, Sun, Moon, planets and stars • Learn about space travel <u>Sound</u> • Listen to sounds outside and identify the source • Make sounds <u>Forces</u>

	- Name and describe animals that live in different habitats. - Describe different habitats The Natural World - What animals hibernate? - Make hedgehog homes <u>Humans</u> - Describe people who are familiar to them - Learn about how to take care of themselves Washing Hands- germ experiment (bread test) Our bodies – STEM brilliant bodies <u>Forces</u> - Explore how objects move in water <u>Materials, including changing materials</u> - Observe, measure and record how materials change when heated and cooled - Compare how materials change over time and in different conditions Changes in water - Explore ice, warm water etc. Freeze an object- explore what happens when it goes into water- does it float? How can we melt the ice?	- Explore the animals in the surrounding natural environment - Explore plants and animals in a contrasting natural environment The Natural World - Look at and classifying animals and observing their features - Learn about nocturnal and diurnal animals - Learn about the four seasons <u>Light</u> - Explore shadows - Explore rainbows The Natural World - Weather/ observing winter changes - explore snow/ ice - Discuss the weather and create weather symbols for the children to display in class to record the weeks weather. - Read the book 'Mister Seahorse' and learn about the life cycle of a seahorse <u>Seasonal changes</u> - Play and explore outside in all seasons and in different weather - Observe living things throughout the year <u>Animals, excluding humans</u> - Name and describe animals that live in different habitats. - Describe different habitats <u>Living things and their habitats</u> - Explore the plants in the surrounding natural environment - Explore the animals in the surrounding natural environment - Explore plants and animals in a contrasting natural environment Spring - Planting- broad beans, sun flowers- maintaining EYFS gardens- planting fruit and vegetables - Research flowers that attract different mini beasts and plant in EYFS gardens. - Create wormery - Observe tadpoles - Visit from 'Animals Take Over' - Making minibeast homes - Caterpillars in class- observe the metamorphosis process - Continue to look at and observe different minibeasts and plants in the environment - Make chocolate nest eggs- observing what happens to chocolate when heated and cooled	- Explore how to change how things work - Explore how the wind can move objects <u>Materials, including changing materials</u> - Explore a range of materials, including natural materials - Make objects from different materials, including natural materials
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		<u>Materials, including changing materials</u> • Observe, measure and record how materials change when heated and cooled • Compare how materials change over time and in different conditions - Make Hot Cross Buns - <u>Experiment:</u> Explore eggs- different methods of cooking. How many different ways can we change an egg?	
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