



EYFS links to Science

Age bands	Development Matters	Ranges	Birth to 5 Matters
0-3	<p>Explore materials with different properties.</p> <p>Explore natural materials, indoors and outside.</p> <p>Explore and respond to different natural phenomena in their setting and on trips.</p>	1	<p>Looks around with interest when in a room, garden, balcony or park, visually scanning the environment for novel, interesting objects and events</p>
3-4	<p>Use all their senses in hands-on exploration of natural materials.</p> <p>Explore collections of materials with similar and/or different properties.</p> <p>Talk about what they see, using a wide vocabulary.</p> <p>Explore how things work.</p> <p>Plant seeds and care for growing plants.</p> <p>Understand the key features of the life cycle of a plant and an animal.</p> <p>Begin to understand the need to respect and care for the natural environment and all living things.</p> <p>Explore and talk about different forces they can feel.</p> <p>Talk about the differences between materials and changes they notice.</p>	2	<ul style="list-style-type: none"> • Closely observes what animals, people and vehicles do • Watches toy being hidden and tries to find it, watches intently where a spider has scuttled away under leaves • Looks for dropped objects • Becomes absorbed in combining objects, e.g. banging two objects or placing objects into containers • Knows things are used in different ways, e.g. a ball for rolling or throwing, a toy car for pushing
Reception	<p>Explore the natural world around them.</p> <p>Describe what they see, hear and feel whilst outside.</p> <p>Recognise some environments that are different from the one in which they live.</p>	3	<ul style="list-style-type: none"> • Is curious and interested to explore new and familiar experiences in nature: grass, mud, puddles, plants, animal life • Explores objects by linking together different

	Understand the effect of changing seasons on the natural world around them.		approaches: shaking, hitting, looking, feeling, tasting, mouthing, pulling, turning and poking <ul style="list-style-type: none"> • Remembers where objects belong • Matches parts of objects that fit together, e.g. puts lid on teapot
ELG	<p>Communication and Language ELG</p> <ul style="list-style-type: none"> - Make comments about what they have heard and ask questions to clarify their understanding. <p>Personal, Social and Emotional Development ELG</p> <ul style="list-style-type: none"> - Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. <p>The Natural World ELG</p> <p>Children at the expected level of development will:</p> <ul style="list-style-type: none"> - 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. 	4	<ul style="list-style-type: none"> • Notices detailed features of objects in their environment • Can talk about some of the things they have observed such as plants, animals, natural and found objects • Enjoys playing with small world reconstructions, building on first-hand experiences, e.g. visiting farms, garages, train tracks, walking by river or lake
Opportunities within Provision	<ul style="list-style-type: none"> • Observing changes outside during different seasons • Mini-beast hunt 	5	<ul style="list-style-type: none"> • Comments and asks questions about aspects of their familiar world such as the place where they

	<ul style="list-style-type: none"> • Plant seeds and care for growing plants • Observing shadows and how they change – investigating with torches • Observing life cycle of a chick/butterfly • Observational drawings of the outside environment and animals • Melting and freezing – exploring ice • Preparing healthy food/snacks • Brushing teeth/dentist role play 		<p>live or the natural world</p> <ul style="list-style-type: none"> • Talks about why things happen and how things work • Developing an understanding of growth, decay and changes over time • Shows care and concern for living things and the environment • Begin to understand the effect their behaviour can have on the environment
		6	<ul style="list-style-type: none"> • Looks closely at similarities, differences, patterns and change in nature • Knows about similarities and differences in relation to places, objects, materials and living things • Talks about the features of their own immediate environment and how environments might vary from one another • Makes observations of animals and plants and explains why some things occur, and talks about changes

EYFS Science skills

ELG: The Natural 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.

EYFS Science knowledge

Seasons and weather

Name the four seasons

Name different types of weather

Make observations about the weather

Describe the weather associated with each season

Make simple observations about changes across the seasons

Everyday materials

Name everyday materials including wood, plastic, metal, water, fabric and rock

Describe simple properties of everyday materials

Sort objects

Natural world

Say the names of basic parts of trees and plants.

Say what plants need to grow.

Match leaves they have collected to pictures of a leaf

Talk about how to look after the world around them.

Take part in an activity to care for the world around them ie litter picking/classroom monitors

Sort rainforest animals into groups.

Ask questions about endangered animals.

Key Vocabulary

Seasons and weather

Summer, Winter, Autumn, Spring, day, daytime, wind, rain, sleet, hail, fog, cold, sun, hot.

Everyday materials

Hard, soft, stretchy, stiff, shiny, dull, rough, smooth, bendy, waterproof, absorbent, wood, plastic, metal, water, fabric, properties, materials.

Natural world

Habitats, food chain, shelter, seashore, woodland.

Petal, root, leaf, stalk, water, oxygen, sunshine, soil

Climate change, endangered, environment, litter, pollution, air, world.

