



Science in Early Years is taught through Understanding the World and through continuous provision using weekly topics. Every year Nursery are involved in the whole school Science day completing a range of scientific investigations and experiments to develop their curiosity. Children also have access to lots of #sensory activities in their continuous provision including exploring jelly, ice, pasta, spaghetti, water, sand and various others which allows them to develop their confidence, vocabulary and hand-on exploration. Water and sand is also available outside alongside bug exploration and planting stations.

Home learning projects:

Animals and their young 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	Grow a broad bean Plant seeds and care for growing plants Understand the key features of the life cycle of a plant and an animal	Feed the ducks Begin to understand the need to respect and care for the natural environment and all living things	Paint ice cubes 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 Explore how things work
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Continuous provision:

UTW: The Natural 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

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 the differences between materials and changes they notice

Know that there are different countries in the world and talk about the differences they have experienced or seen in photos.



	EYFS 3 and 4 year old objectives UTW: The Natural World				
	EYFS objectives	Topic / question	Knowledge	LO	Vocabulary
Science					

	Explore collections of materials with similar and/or different properties Talk about what they see, using a wide vocabulary 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	harvest/fruits and vegetables	Know different types of vegetables and be able to talk about their own experiences. Know where fruit and vegetables come from and how they grow. 	In a large tray, provide a variety of vegetables and fruits for children to investigate. Invite children to use their senses to explore the food items and talk about what they look, feel and smell like. Provide magnifying glasses, spoons and bowls for children to use.	Vegetables, fruits, grow, farm, explore, soil, sun, water, harvest
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	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	Halloween	Know that seeds are inside pumpkins Know that the seeds grow into pumpkins if planted	In a large tray, allow children to explore with the inside of a pumpkin and discuss what they can see using their senses.	Halloween, pumpkin, harvest, seeds, grow, plant, see, touch, smell, hear
	Know that there are different countries in the world and talk about the differences they have experienced or seen in photos.	Diwali	Know that some people celebrate Diwali. Know that India is another place in the world. Know that different foods come from all around the world.	Explore different foods that may be consumed during Diwali and food taste and review together	Diwali, celebrate, culture, food, India, taste, like, dislike, smell

Explore how things work-		Winter	Name what clothes people wear in Winter Know what the weather is like in Winter Children explore the changing seasons, cold weather, and how humans adapt by picking appropriate clothing (e.g., hats, coats, and mittens) to stay warm	I can sort clothes and accessories into Seasons for Winter and Summer. 	winter, seasons, Spring, Summer, Winter, Autumn, cold, snow, ice, fog, scarf, gloves, mittens, hat, coat, boots, warm, jumpers, t-shirts, coughs, colds, illness,
		Winter	Know that ice is frozen water Talk about how water/ice changes by freezing and melting	Children's learning journeys (Continuous provision) 	Ice, freeze, water, melt, frozen, cold, Arctic, Antarctic, Polar bear, penguin, seal.

Talk about what they see, using a wide vocabulary Explore how things work	Arctic	To know what ice is. Investigate what happens to ice	Investigate ice and melting To describe what ice feels like using adjectives. 	winter, cold, freezer, freeze, frozen, ice, melt, wet, freezing, temperature, slippery, burning, hard, solid, liquid, runny, pour, changes shape.
Know that there are different countries in the world and talk about the differences they have experienced or seen in photos. PD- cutting and sticking	Wild jungle animals	Know and name different animals Talk about features Know that some animals live in the jungle	I can cut and stick to create a jungle scene I can talk about and name jungle animals	jungle, Africa, long grass, giraffe, swishy, swashy, scared. Not scared, over, under, around, big, over, under, through, before, lake, crash, sla, tired, sleepy, swamp, can't, squish, squash, dark, cave, elephant, tip-toe, shaggy, mane, paws, wet, nose, area, landscape, different.



Know that there are different countries in the world and talk about the differences they have experienced or seen in photos Introduces children to the natural world, living creatures, and different habitats.	Zoo animals	Know what animals can live in a zoo Know what noise the animals make	I can copy / identify the sounds of different zoo animals	Zoo, elephant, giraffe, monkey, lion, frog, dog, dear zoo, big, small, jumpy, fierce, scary
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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	Farm animals	Name farm animals and their habitat (where they live) Know what the farm animals eat	I can match animals to where they live on the farm. 	farm, animals, love, farmer, ducks, pond, water, bread, horse, stable, hay, carrots, apples, pig, mud, pig sty, vegetables, sheep, field, grass,
Plant seeds and care for growing plants Understand the key features of	Spring and growing	Know what cress needs to grow Name what you need to plant cress To know how to use tools safely.	I can follow instructions and grow a cress head. 	cress, seeds, grow, seeds, green, roots, cotton wool, water, sunlight, dark, sandwich, bread, margarine, knife, spread, flat, blade,

the life cycle of a plant and an animal	Spring and growing	Know what a sunflower needs to grow Order pictures of sunflowers to show how they grow and change I can plant a sunflower seed	I can order the pictures of a seed to a sun flower. I can describe how a sun flower grows. I can plant a sunflower 	flowers, sunflower, yellow, black, tall, big, leaf, grow, plant, watch, water, sun, pot, soil, seeds, packet, paper towel, tray,
the life cycle of a plant and an animal	Farm animals	Know what animals live on a farm Know that animals produce things that we can use Know the life cycle of a chick	I can match animals to their produce I can order the life cycle of a chick	Farm, animals, life cycle, egg, chicken, chick, baby, adult

	Explore collections of materials with similar and/or different properties Talk about what they see, using a wide vocabulary	Knights and castles	Know what magnetic and non-magnetic means. Know different materials such as metal and fabric.	Provide the children with magnets and encourage them to explore magnetism by sorting castle items, such as coins, jewellery, king's cloak and goblet according to whether they are magnetic or non-magnetic. 	Magnetic, magnet, non-magnetic, stick, attract, repel, sort, material, metal, fabric, wood, glass, plastic.
	Talk about what they see, using a wide vocabulary Explore how things work	Transport	Know and name different vehicles Know vehicles you find on the road, in the air and in the ocean. Know the difference between transport and how they move	I can sort and categorise transport by wheels and no wheels. 	car, lorry, van, bus, double Decker, bike, bicycle, aeroplane, train, submarine, tractor, motor bike, ferry, tram, rocket, hot air balloon, transport, categorise, different, similar, move, fast, slow, road, air, water, sea, ocean, train track, wheels, tyres, wings, electric lines,

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	Mini-beasts	Know the names of some minibeast Know where mini-beasts live 	I can find and name different mini-beasts on my Minibeast hunt. I can use a camera to take photographs of mini-beasts.	minibeast, bug, insect, move, crawl, ant, spider, fly, caterpillar, butterfly, bug hunt, camera, photograph, photo, take, watch, ladybirds, spots, legs, wings, web.
Understand the key features of the life cycle of a plant and an animal	Under the sea	Know the names of different sea creatures Know the ocean is where the creatures live Know the ocean surrounds the land around the country and world	I can name sea creatures. 	sea, ocean, water, world, country, surrounding, land, creatures, animals. live, habitat, octopus, shark, jellyfish, crab, dolphin, fish, starfish, whale, sea turtle, puffer fish, lobster, sea lion, walrus, rock pool, tide, water, danger



	Talk about what they see, using a wide vocabulary Explore how things work	What do you wear on a cold day?	Know and name the different seasons Know and name clothes which people wear in winter Know in winter it is cold	UW class discussion book	cold, snowy, rainy, windy, icy, snow, freezing, temperature, scarf, hat, gloves, coat, boots, wellies, trousers, warm socks, Winter, Autumn
				I can identify what to wear on a cold day	
	Talk about what they see, using a wide vocabulary Explore how things work	What do you wear on a hot day?	Know and name the different seasons Know and name clothes which people wear in summer Know in summer it is hot	UW Class discussion book I can identify what to wear on a hot day	hot, sunny, boiling, Summer, season, sun cream, sunglasses, sun hat, skirt, shorts, dress, t-shirt,
				I can identify what to wear on a hot day	
	Talk about what they see, using a wide vocabulary Explore how things work	What pets do you have?	Know and name animals we can have as pets Know what pets need Know how pets are similar and different Know some pets live inside and some live outside	UW class discussion book	pet, animal, home, care, look after, hamster, gerbil, guinea pig, rabbit, spider, snake, goldfish, cat, dog, food, water, toys, similar, different, move, run, slither, swim, cage, kennel, bed, blanket, hutch, inside, outside



	Talk about what they see, using a wide vocabulary Explore how things work	What is the weather like today? Can you talk about different types of weather?	Know and name different types of weather Know what happens when we have too much rain Know what happens when we have rain and sun Describe how we feel when there is thunder and lightening	UW class discussion book	weather, emotions, feeling, rain, flooding, rainbow, sunny, bright, cloudy, thunder, lightning, loud, bolt, scary, snow, cold, ice, fog, scared, worried, anxious, nervous, happy,
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