

Science Sequencing Document - Year Reception 2022/ 2023

Term	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Торіс	Big wide world		Splash!		Winter wonderland		Starry Night		Sunshine and		Shadows and	
			1						sunflowers		reflections	
Enquiry Questions:	Which animals live around the world?		How does water freeze and melt? Which objects float and sink?		What changes happen during winter?		Why is it dark at night?		Where do mini beasts live?		How are shadows formed?	
Understanding the world EYFS framework:	-Explore the natural world around them, drawing pictures of animals and plantsKnow some similarities and differences between the natural world around them and contrasting environments.		-Explore the natural world around them, making observations and drawing pictures of animals and plantsUnderstand some important processes and changes in the natural world around them, including the seasons and changing states of matter.		-Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter Explore the natural world around them, making observations and drawing pictures of animals and plants.		-Understand the past through settings, characters and events encountered in books read in class and storytelling 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.		- Describe their immediate environment using knowledge from observation, discussion, stories, nonfiction texts and maps Explore the natural world around them, making observations and drawing pictures of animals and plants.		- Describe their immediate environment using knowledge from observation, discussion, stories, non-fiction texts and maps Explore the natural world around them, making observations and drawing pictures of animals and plants Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter	
Knowledge content:	-Litter has a harmful effect on the areas where we live, work and playObjects are made from different materials. Everyday materials include, wood, plastic, glass, fabric, metal and stone. Materials have different propertiesDifferent animals live in different parts of the world and have adapted to the climate and terrain.		-Ice is a solid form of waterWater turns to ice (freezes) when it is very coldWhen ice is heated it melts and becomes liquidPlants and animals are living things. Plants need water, sunlight and air to survive. Animals need food, water, air and shelter to surviveSome objects float and others sink.		-Different places have different climates and weatherSome animals live in cold places and have special features to help them to live in the cold Plants and animals are living things. Plants need water, sunlight and air to survive. Animals need food, water, air and shelter to surviveThere are lots of different types of birdsSome animals need us to feed them in the winter.		-Some light sources need electricity or batteries to work, such as a torch, and some do not, such as candlesA shadow is the same shape as the object that makes it. Shadows change during the dayShadows are made when a solid object blocks a source of lightObjects can be compared and grouped according to their shape, colour, material or useSome animals are awake during the day and others during the night.		-Plants and animals are living things. Plants need water, sunlight and air to surviveAnimals need food, water, air and shelter to surviveAnimals have different habitatsLitter has a harmful effect on where we live work and play.		-Natural phenomena include weather, shadows, rainbows, clouds, flooding and wavesShadows created by the dun, move and change shape during the dayObjects can be compared and grouped according to their shape, colour, material or useSome objects are opaque and others transparent A shadow is the same shape as the object that makes it. Shadows change during the dayA reflection is a return of light from a surface.	
Skills content:	-Show care for living things and the environmentDescribe how they can look after their environmentName and sort everyday items into groups of the same material Name a variety of animals and identify where they liveIdentify common features for different groups of animals, including wild and domestic animals.		-Represent scientific observations by mark making, drawing or creating simple charts and tables. Offer explanations for why things happen, making use of vocabulary, such as, because, then and nextTalk about and play with objects that float and sink and describe different forces that they can feelDescribe some ways that plants or animals should be cared for in order for them to survive.		-Describe how the weather, plants and animals of one place is different to another using simple geographical termsDescribe some ways that plants or animals should be cared for in order for them to surviveTalk about the changes which happen during the winter.		-Explore and describe electrical and non-electrical light sourcesMake a shadow bigger or smaller using toys, play equipment and a light sourceCompare and group objects and materials according to simple given criteriaCompare animals and when they are awake/ asleep.		 Describe some ways that plants or animals should be cared for in order for them to survive. Describe how they can look after their environment. Describe different habitats lived in by a variety of mini beasts. 		-Name and describe natural phenomena, such as the size of shadows, the colours of a rainbow, the speed of clouds moving across the sky and the strength of a waveCompare and group objects and materials according to simple given criteriaMake a shadow bigger or smaller using toys, play equipment and a light sourceExplore reflections in different surfaces.	
Sequence of learning:	equence of learning: 1-Looking after our planet.		1-Melting and freezing.		1-Where is it always cold?		1-The moon.		1-Eco gardeners		1-What is a shadow?	
•	2-Recycling and sorting materials.		2- Floating and sinking 3- Hydration		2What happens in the winter?		2-Why is it dark at night?		2-Mini beast habitats		2-Objects in the sun.	
	3-Animals from around the world- similarities and differences.				3-Feed the birds.		3-Making shadows		3-Mini beast hunt		3-Shadow patterns.	
	4-Where do animals live?						4-Nocturnal animals				4-What is a reflection?	
Vocabulary:	Living things	Glass	Float	Hydrate	Winter	Animals	5-Is it soft? Night	Material	Mini beast	Plants	Compare	Reflection
vocubatur g.	World Planet Earth Environment Recycling/ recycle Animals Wildlife Habitat Features	Metal Sorting Classify Compare Similarities Differences Explore Describe Discuss Cloth Materials	Sink Freeze Melt Heat Cold Liquid Solid Water Hydration	Plants Animals Survive Observation Observe Explore Describe Discuss	Seasons Seasonal changes Cold Freezing Snow Adapt Weather Plants	Explore Describe Discuss Observe Record Observation	Day Nocturnal Space Moon Shadows Light Dark Group Compare Light source	Soft Hard Rough Smooth Explore Describe Discuss Observe observation	Habitat Living things Hunt Observe Record Observations Ecological Environment	Animals Food Water Shelter Explore Describe Discuss observe	Group Size Shape Opaque Transparent Sun Shadow Observe Record	Mirror Light Surface Explore Describe Observation