

KEY	RECEPTION	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
	Through opportunities for	ILAN I	ILAN Z	TLAN 3	TLAN 4	TLAN 3	TLAN
CONCEPTS	exploratory play in continuous						
FOR KS1 AND	provision and planned learning						
KS2	experiences, EYFS children will:						
	ELG - Understanding the						
	world: The Natural World:						
	World: The Natara World:						
	Explore the natural world						
	around them, making						
	observations and drawing						
	pictures of animals and						
	plants.						
	p.a.r.s.						
	V						
	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.						
	changing states of matter.	Ideal's and arms	Observation and describes here.	I describe and describe the			
		Identify and name a	Observe and describe how	Identify and describe the			
		variety of common wild	seeds and bulbs grow into	functions of different parts			
PLANTS	Understand the need to	and garden plants,	mature plants.	of flowering plants: roots,			
	show care and concern for	including deciduous and		stem/trunk, leaves and			
	my environment.	evergreen trees.	Find out and describe how	flowers.			
	-	_	plants need water, light and				
	Plant seeds and care for	Identify and describe the	a suitable temperature to	Explore the requirements			
	growing plants.	basic structure of a variety	grow and stay healthy.	of plants for life and growth			
	Prowing bining.	of common flowering	Brow and stay ficaltify.	(air, light, water, nutrients			
	Undoneton dello - Uni	_		•			
	Understand the key	plants.		from soil, and room to			
	features of the life cycle of			grow) and how they vary			
	a plant.			from plant to plant.			
	Understand the need to			Investigate the way in			
	respect and care for the			which water is transported			
	natural environment and			within plants.			
	all living things.			pranto.			
	an aving unings.			Evalore the part that			
	Tally about the desired			Explore the part that			
	Talk about the importance			flowers play in the life cycle			
	of looking after plants and			of flowering plants,			
	animals.			including pollination, seed			
				formation and seed			
				dispersal.			
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		Identify and name a	Notice that animals,	Identify that animals,	Describe the simple	Describe the changes as	Identify and name the main
ANIMALS,	To know my 5 senses.	variety of common	including humans, have	including humans, need the	functions of the basic parts	humans develop to old age.	parts of the human
INCLUDING	,	animals, including fish,	offspring which grow into	right types and amount of	of the digestive system in		circulatory system, and
HUMANS	Discuss how I have	amphibians, reptiles, birds	adults.	nutrition, and that they	humans.		describe the functions of
	changed since I was a	and mammals.		cannot make their own			the heart, blood vessels and
	baby.		Find out about and describe	food; they get nutrition	Identify the different types		blood.
		Identify and name a	the basic needs of animals,	from what they eat.	of teeth in humans and		
	Talk about animals in	variety of common animals	including humans, for		their simple functions.		Recognise the impact of
	autumn.	that are carnivores,	survival (water, food and	Identify that humans and	then simple functions.		diet, exercise, drugs and
	adtairii.	herbivores and omnivores.	air).	some other animals have	Construct and interpret a		lifestyle on the way their
	Understand the need to	nerbivores and omnivores.	un ).	skeletons and muscles for	variety of food chains,		bodies function.
	care for animals in the	Describe and compare the	Describe the importance	support, protection and	identifying producers,		bodies function.
	winter months.	structure of a variety of	for humans of exercise,	movement.	predators and prey.		Describe the ways in which
	winter months.	common animals (fish,	eating the right amounts of	movement.	predators and prey.		nutrients and water are
	Understand the key	amphibians, reptiles, birds	different types of food, and				transported within animals,
	Understand the key						· · ·
	features of the life cycle of	and mammals including	hygiene.				including humans.
	an animal (butterfly, frog)	pets).					
	Lice all of my conces in	Identify name draw and					
	Use all of my senses in	Identify, name, draw and					
	hands-on exploration of	label the basic parts of the					
	natural materials.	human body and say					
		which part of the body is					
		associated with each					
====		sense.					
MATERIALS	Talk about the differences	Distinguish between an	Identify and compare the		Compare and group	Compare and group	
STATES OF		object and the material	suitability of a variety of		materials together,	together everyday	
STATES OF	between materials and	from which it is made.	everyday materials,		according to whether they	materials on the basis of	
MATTER	changes they notice.	Ideatif. and some	including wood, metal		are solids, liquids or gases.	their properties, including	
	the decester of a letale	Identify and name a	plastic, glass, brick, rock,		Observe that are see	their hardness, solubility,	
	Understand which	variety of everyday	paper and cardboard for		Observe that some	transparency, conductivity	
	materials are 'waterproof.'	materials, including wood,	particular uses.		materials change state	(electrical and thermal),	
	Evalore and talk about	plastic, glass, metal, water, and rock.	Find out about how the		when they are heated or	and response to magnets.	
	Explore and talk about	and rock.	Find out about how the		cooled, and measure or	Kanada kanada mada minin	
	different forces I can feel.	Describe the simula	shapes of solid objects		research the temperature	Know that some materials	
	Understand the consent of	Describe the simple	made from some materials		at which this happens in	will dissolve in liquid to	
	Understand the concept of	physical properties of a	can be changed by		degrees Celsius (°c).	form a solution, and	
	sinking.	variety of everyday	squashing, bending,		Identify the next played by	describe how to recover a	
	Understand the concept of	materials.	twisting and stretching.		Identify the part played by	substance from a solution.	
	Understand the concept of floating.	Compare and group			evaporation and condensation in the water	Hee knowledge of solids	
	noating.	Compare and group				Use knowledge of solids,	
	Understand the effects of	together a variety of			cycle and associate the rate	liquids and gases to decide	
		everyday materials on the basis of their simple			of evaporation with	how mixtures might be separated, including	
	recycling.	•			temperature.		
	Evalure collections of	physical properties.				through filtering, sieving	
	Explore collections of					and evaporating.	
	materials with similar					Give reasons based on	
	and/or different					Give reasons, based on	
1	properties.					evidence from comparative	
						and fair tests, for the	
						particular uses of everyday	
						materials, including metals,	
						wood and plastic.	



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					Demonstrate that dissolving, mixing and changes of state are reversible changes.  Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the action of acid on bicarbonate of soda.	
SEASONS AND WEATHER	Observe the weather (continued)  Talk about Autumn as a season and the changes that occur.  Talk about Winter as a season and the changes that occur.  Talk about Spring as a season and the changes that occur.  Talk about summer as a season and the changes that occur.	Observe changes across the four seasons.  Observe and describe weather associated with the seasons and how day length varies.				
LIVING THINGS AND THEIR HABITATS	Observe animals in their habitats.  Talk about what I see, using a wide vocabulary.  Describe what they see, hear and feel whilst outside.  Talk about the importance of looking after our environment.		Explore and compare difference between things that are living, dead, and things that have never been alive.  Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other.	Recognise that living things can be grouped in a variety of ways.  Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.  Recognise that environments can change and that this can sometimes pose dangers to living things.	Describe the difference in the life cycles of a mammal, an amphibian an insect and a bird.  Describe the life process of reproduction in some plants and animals.	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and difference, including microorganisms, plants and animals.  Give reasons for classifying plants and animals based on specific characteristics.

### Progression in Science – Substantive Knowledge Identify and name a variety of plants and animals in their habitats, including microhabitats. Describe how animals obtain food from plants and other animals, using the idea of a simple food chain, and identify and name different sources of food. ROCKS Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties. Describe in simple terms how fossils are formed when things that have lived are trapped within rock. Recognise that soils are made from rocks and organic matter. LIGHT Recognise that they need Recognise that light light in order to see things appears to travel in straight and that dark is the lines. absence of light. Use the idea that light Notice that light is reflected travels in straight lines to from surfaces. explain that objects are seen because they give out Recognise that light from or reflect light into the eye. the sun can be dangerous and that there are ways to Explain that we see things protect their eyes. because light travels from light sources to our eyes to Recognise that shadows objects and then to our formed when light from a eyes. light source is blocked by an opaque object. Use the idea that light

Find patterns in the way

that the size of shadows

change.

travels in straight lines to

the same shape as the

objects that cast them.

explain why shadows have



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FORCES	Explore how things work.		Compare how things move on different surfaces.  Notice that some forces need contact between two objects, but magnetic		Explain that unsupported object fall towards the Earth because of the force of gravity acting between the Earth and the falling object.	
			forces can act at a distance.		Identify the effects of air	
			Observe how magnets attract or repel each other and attract some materials and not others.		resistance, water resistance and friction that act between moving surfaces.	
			Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.		Recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect.	
			Describe magnets as having two poles.			
			Predict whether two magnets will attract or repel each other, depending on which poles are facing.			
SOUND				Identify how sounds are made, associating some of them with something vibrating.		
				Recognise that vibrations from sounds travel through a medium to the ear.		
				Find patterns between the pitch of a sound and features of the object that produced it.		
				Find patterns between the volume of a sound and the strength of the vibrations that produced it.		
				Recognise that sounds get fainter as the distance from the sound increases.		



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ELECTRICITY			Identify common		Associate the brightness of
			appliances that run on		a lamp or the volume of a
			electricity.		buzzer with the number
			,		and voltage of cells used in
			Construct a simple series		the circuit.
			electrical circuit, identifying		the chedic.
					Compare and give reasons
			and naming its basic parts,		Compare and give reasons
			including cells, wires, bulbs,		for variations in how
			switches and buzzers.		components function,
					including the brightness of
			Identify whether or not a		bulbs, the loudness of
			lamp will light in a simple		buzzers and the on/off
			series circuit, based on		position of switches.
			whether or not the lamp is		position or ownedities.
					He recognised symbols
			part of a complete loop		Use recognised symbols
			with battery.		when representing a simple
					circuit in a diagram.
			Recognise that a switch		
			opens and closes a circuit		
			and associate this with		
			whether or not a lamp		
			lights in a simple series		
			circuit.		
			Circuit.		
			Recognise some common		
			conductors and insulators,		
			and associate metals with		
			being good conductors.		
EARTH AND				Describe the movement of	
SPACE				the Earth and other planets	
0.7.02				relative to the sun in the	
				solar system.	
				Describe the movement of	
				the moon relative to the	
				Earth.	
				Describe the sun, Earth and	
				moon as approximately	
				spherical bodies.	
				spirerieal soules.	
				Use the idea of the Earth's	
				rotation to explain day and	
				night and the apparent	
				movement of the sun	
				across the sky.	
EVOLUTION					Recognise that living things
AND					have changed over time
INHERITANCE					and that fossils provide
					information about living
					things that inhabited the
					Earth millions of years ago.

bridge r School	Progression in Science – Substantive Knowledge								
							Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.  Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.		
							evolution.		