## **Progression in Science**

		Nursery	Use all their senses in hands-on exploration of natural materials.
			Explore collections of materials with similar and/or different properties.
			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.
		Reception	Explore the natural world around them.
		Reception	Describe what they see, hear and feel whilst outside
			Recognise some environments that are different to the one in which they live
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Ser Noge		Year 1	Understand the effect of changing seasons on the natural world around them.
Nup.		rear I	Identify and name a variety of common wild and garden plants, including
ALLON CHART	S		deciduous and evergreen trees.
W C	Plants		Identify and describe the basic structure of a variety of common flowering
	Ч		plants, including trees.
		Year 2	Observe and describe how seeds and bulbs grow into mature plants.
			Find out and describe how plants need water, light and a suitable
			temperature to grow and stay healthy.
			Identify and name a variety of plants and animals in their habitats, including
			microhabitats.
		Year 3	Identify and describe the functions of different parts of flowering plants:
			roots, stem/trunk, leaves and flowers.
			Explore the requirements of plants for life and growth (air, light, water,
			nutrients from soil, and room to grow) and how they vary from plant to plant.
			Investigate the way in which water is transported within plants.
			Explore the part that flowers play in the life cycle of flowering plants,
			including pollination, seed formation and seed dispersal.
BIOLOGY		Nursery	Use all their senses in hands-on exploration of natural materials.
			Explore collections of materials with similar and/or different properties.
			Begin to understand the need to respect and care for the natural
			environment and all living things.
		Reception	Draw information from a simple map.
	Living things and their habitats		Explore the natural world around them.
			Describe what they see, hear and feel whilst outside.
			Recognise some environments that are different to the one in which they live.
		Year 1	Identify and name a variety of common wild and garden plants, including
			deciduous and evergreen trees.
			Identify and describe the basic structure of a variety of common flowering
			plants, including trees.
			Identify and name a variety of common animals including fish, amphibians,
	gs		reptiles, birds and mammals.
	iving thing		Identify and name a variety of common animals that are carnivores,
			herbivores and omnivores.
			Describe and compare the structure of a variety of common animals (fish,
	<u> </u>		amphibians, reptiles, birds and mammals, including pets).
			Observe changes across the four seasons
		Year 2	Explore and compare the differences 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.
			סי מהווחמוש מחת אומונש, מהת הסיע הובץ תבאבות טוו במכוו טנוובו.

		[	Identify and name a variaty of plants and animals in their babitats including
			Identify and name a variety of plants and animals in their habitats, including microhabitats.
			Describe how animals obtain their food from plants and other animals, using
			the idea of a simple food chain, and identify and name different sources of
			food.
		Veer 2	Notice that animals, including humans, have offspring which grow into adults.
		Year 3	Explore the part that flowers play in the life cycle of flowering plants,
		<b>N</b> I	including pollination, seed formation and seed dispersal.
		Nursery	Use all their senses in hands-on exploration of natural materials.
			Begin to make sense of their own life-story and family's history.
			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.
		Reception	Talk about members of their immediate family and community.
			Name and describe people who are familiar to them.
			Recognise some environments that are different to the one in which they live.
		Year 1	Identify and name a variety of common animals including fish, amphibians,
	6		reptiles, birds and mammals.
	ans		Identify and name a variety of common animals that are carnivores,
	шn		herbivores and omnivores.
	вh		Describe and compare the structure of a variety of common animals (fish,
	din		amphibians, reptiles, birds and mammals, including pets).
	clu		Identify, name, draw and label the basic parts of the human body and say
	Ū		which part of the body is associated with each sense.
	als,	Year 2	Notice that animals, including humans, have offspring which grow into adults.
	Animals, including humans		Find out about and describe the basic needs of animals, including humans, for
			survival (water, food and air).
			Describe the importance for humans of exercise, eating the right amounts of
			different types of food, and hygiene.
			Describe how animals obtain their food from plants and other animals, using
			the idea of a simple food chain, and identify and name different sources of
			food.
		Year 3	Identify that animals, including humans, need the right types and amount of
			nutrition, and that they cannot make their own food; they get nutrition from
			what they eat.
			Identify that humans and some other animals have skeletons and muscles for
		Nurconi	support, protection and movement.
	e	Nursery	Begin to understand the need to respect and care for the natural
		Reception	environment and all living things. Recognise some environments that are different to the one in which they live.
	can		Recognise some environments that are different to the one in which they live.
	eril	Year 1	. Tala matifications are not to the addition of the second states are such to be the second sector of the second
	inh	Year 2	Identify that most living things live in habitats to which they are suited and
	pu		describe how different habitats provide for the basic needs of different kinds
	na		of animals and plants, and how they depend on each other.
	tio	Vocr 2	Notice that animals, including humans, have offspring which grow into adults.
	Evolution and inheritance	Year 3	Describe in simple terms how fossils are formed when things that have lived
			are trapped within rock.
			Explore the part that flowers play in the life cycle of flowering plants,
			including pollination, seed formation and seed dispersal.

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		Nursery	Use all their senses in hands-on exploration of natural materials.
			Explore collections of materials with similar and/or different properties.
			Talk about the differences between materials and changes they notice.
		Reception	Explore the natural world around them.
			Describe what they see, hear and feel whilst outside.
		Year 1	Distinguish between an object and the material from which it is made.
ik ,			Identify and name a variety of everyday materials, including wood, plastic,
200 Nooly			glass, metal, water, and rock.
			Describe the simple physical properties of a variety of everyday materials.
The second second			Compare and group together a variety of everyday materials on the basis
<i>₩</i>	als		of their simple physical properties.
	Materials	Year 2	Identify and compare the suitability of a variety of everyday materials,
	Лat		including wood, metal, plastic, glass, brick, rock, paper and cardboard for
	2		particular uses.
			Find out how the shapes of solid objects made from some materials can
			be changed by squashing, bending, twisting and stretching.
CHEMISTRY		Year 3	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.
			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.
		Nursery	Use all their senses in hands-on exploration of natural materials
		,	Explore collections of materials with similar and/or different properties.
		Reception	Explore the natural world around them.
			Describe what they see, hear and feel whilst outside.
		Year 1	Distinguish between an object and the material from which it is made.
			Identify and name a variety of everyday materials, including wood, plastic,
			glass, metal, water, and rock.
			Describe the simple physical properties of a variety of everyday materials.
	<u>s</u>		Compare and group together a variety of everyday materials on the basis
	Rocks		of their simple physical properties.
	ш.	Year 2	Identify and compare the suitability of a variety of everyday materials,
			including wood, metal, plastic, glass, brick, rock, paper and cardboard for
			particular uses.
		Year 3	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.
			necognise that solis are made norm rocks and organic matter.

		Nursery	Explore how things work.
			Talk about the differences in materials and changes they notice.
		Reception	Describe what they see, hear and feel whilst outside.
		Year 1	Identify, name, draw and label the basic parts of the human body and
			say which part of the body is associated with each sense. Describe the
			simple physical properties of a variety of everyday materials.
		Year 2	
	Light	Year 3	Recognise that they need light in order to see things and that dark is the
			absence of light.
			Notice that light is reflected from surfaces.
			Recognise that light from the sun can be dangerous and that there are
			ways to protect their eyes.
			Recognise that shadows are formed when the light from a light source is
			blocked by an opaque object.
			Find patterns in the way that the size of shadows change.
oork 100		Nursery	Explore how things work.
of the second se		, ,	Explore and talk about different forces they can feel.
			Talk about the differences between materials and changes they notice.
THOW LES		Reception	Explore the natural world around them.
		Reception	Describe what they see, hear and feel whilst outside.
		Year 1	
		Year 2	Find out how the shapes of solid objects made from some materials can
		Teal 2	be changed by squashing, bending, twisting and stretching
HYSICS	S	Year 3	Compare how things move on different surfaces.
	Forces	Tear 5	Notice that some forces need contact between two objects, but
	For		magnetic forces can act at a distance.
			Observe how magnets attract or repel each other and attract some
			materials and not others.
			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.
			Describe magnets as having two poles.
			Predict whether two magnets will attract or repel each other, depending
			on which poles are facing.
		Nursery	Explore how things work.
		Reception	Describe what they see, hear and feel whilst outside.
		Year 1	Identify, name, draw and label the basic parts of the human body and
			say which part of the body is associated with each sense.
		Year 2	
		Year 3	
		Year 4	Identify how sounds are made, associating some of them with
	σ		something vibrating.
	Sound		Recognise that vibrations from sounds travel through a medium to the
	Sol		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 source
			increases.

		Nursery	Explore how things work.
		Reception	
		Year 1	
		Year 2	
		Year 3	
	≥	Year 4	Identify common appliances that run on electricity.
	Electricity		Construct a simple series electrical circuit, identifying and naming its
	ecti		basic parts, including cells, wires, bulbs, switches and buzzers.
	Ē		Identify whether or not a lamp will light in a simple series circuit, based
			on whether or not the lamp is part of a complete loop with a battery.
			Recognise that a switch opens and closes a circuit and associate this
			with whether or not a lamp lights in a simple series circuit.
			Recognise some common conductors and insulators, and associate
			metals with being good conductors.
		Nursery	
		Reception	Explore the natural world around them.
			Describe what they see, hear and feel whilst outside.
		Year 1	Observe changes across the four seasons.
	cD		Observe and describe weather associated with the seasons and how day
	Earth and space		length varies.
	d sp	Year 2	
	ano	Year 3	
	rth	Year 4	
	Еа	Year 5	Describe the movement of the Earth, and other planets, 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.
			Use the idea of the Earth's rotation to explain day and night and the
			apparent movement of the sun across the sky.
		Nursery	Understand the key features of the life cycle of a plant and an animal.
		Reception	Explore the natural world around them.
	ses		Describe what they see, hear and feel whilst outside.
	nge		Understand the effect of changing seasons on the natural world around
	cha		them.
	ial c	Year 1	Observe changes across the four seasons.
	son		Observe and describe weather associated with the seasons and how day
	Seasonal change		length varies.
	<u>,</u>	Year 2	
		Year 3	Recognise that light from the sun can be dangerous and that there are
			ways to protect their eyes.