

Year 1 Science progression document

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Animals including	Animals including	<u>Plants</u>	<u>Plants</u>	Everyday Materials	Everyday Materials
	<u>humans</u>	<u>humans</u>				
			P1: I can identify	P2: I can identify	M1: I can	M3: I can describe
	A1: I can identify,	A3: I can identify and	and name a variety	and describe the	distinguish	the simple physical
	name, draw and label	name a variety of	of common wild	basic structure of a	between an object	properties of a
	the basic parts of the	common animals	and garden plants,	variety of common	and the material	variety of everyday
	human body and say	that are carnivores,	including deciduous	flowering plants,	from which it is	materials.
	which part of the	herbivores and	and evergreen.	including trees.	made	
	body is associated	omnivores				M4: I can compare
\leftarrow	with each sense.				M2: I can identify	and group together
Year		A4:I can describe			and name a variety	a variety of everyday
>	A2: I can identify and	and compare the			of everyday	materials on the
	name a variety of	structure of a variety			materials, including	basis of their simple
	common animals	of common animals			wood, plastic, glass,	
	including fish,	(fish, amphibians,			metal, water, and	
	amphibians, reptiles,	reptiles, birds and			rock.	
	birds and mammals.	mammals, including				
		pets).				
	Seasonal Change:	Seasonal Change:	Seasonal Change:	Seasonal Change:	Seasonal Change:	Seasonal Change:

	S1: Observe changes across the four seasons. S2: Observe and describe the weather associated with the seasons and how the day length varies. Scientists to study: Aristotle — It was Aristotle who said that humans have 5 senses.	S1: Observe changes across the four seasons. S2: Observe and describe the weather associated with the seasons and how the day length varies.	S1: Observe changes across the four seasons. S2: Observe and describe the weather associated with the seasons and how the day length varies. Scientists to study: Maria Sibylla Merian (German artist, scientific illustrator and naturalist)	S1: Observe changes across the four seasons. S2: Observe and describe the weather associated with the seasons and how the day length varies.	S1: Observe changes across the four seasons. S2: Observe and describe the weather associated with the seasons and how the day length varies. Scientists to study: Charles Macintosh	S1: Observe changes across the four seasons. S2: Observe and describe the weather associated with the seasons and how the day length varies.
Working scientifically skills (Seasons) Observing Setting up tests and recording data. Observing, measuring and recording data.	Working scientifically skills Asking questions and making observations. Making observations and recording data. Setting up simple tests and recording data. Making observations and communicating information.	Working scientifically skills Asking questions and making observations. Making observations and recording data. Setting up simple tests and recording data. Making observations and communicating information.	Working scientifically skills: Making observations and recording information. Making predictions and observations. Naming and observing. Asking questions.	Working scientifically skills: Making observations and recording information. Making predictions and observations. Naming and observing. Asking questions.	Working scientifically skills: Asking questions and recording data. Observing and asking questions. Making observations and grouping. Setting up a test and communicating results.	Working scientifically skills: Asking questions and recording data. Observing and asking questions. Making observations and grouping. Setting up a test and communicating results.

			ubject Specific Vocabu	ary	T	
Seasonal	Head	Fish	Common plants	Flowering plants	Object	Object
change	Ear	Reptile	Wild plants	Environment	Material	Material
vocabulary:	Eye	Mammal	Deciduous	Growth	Wood	Compare
Seasons	Mouth	Bird	Evergreen	Leaves	Plastic	Hard/soft
Summer	Nose	Amphibian	Environment	Flowers (blossom)	Glass	Stretchy/stiff
Spring	Leg	Wings	Growth	Petals	Paper	Shiny/dull
Autumn	Knee	Beak	Leaves	Fruit	Fabric	Rough/smooth
Winter	Arm	Carnivore	Flowers (blossom)	Roots	Metal	Bendy/not bendy
Weather	Elbow	Herbivore	Petals	Bulb	Rock	(flexible)
Sun	Neck	Omnivore	Fruit	Seed	Brick	Waterproof/not
Day	Face		Roots	Trunk	Elastic	waterproof
Moon	Teeth		Bulb	Stem		Absorbent/not
Night	Hair		Seed	Branches		absorbent
Light	Senses		Trunk			Opaque/transparent
Dark	Fish		Stem			Translucent
Rain	Reptile		Branches			
Wind	Mammal					
Snow	Bird					
Frost	Amphibian					
Sleet	Wings					
Fog	Beak					
Cloudy						

Term:	Unit:	Key end points:	Prior learning:	Future learning:	Common
					misconceptions:
Autumn	Animals including humans	By the end of this unit	To use their senses	To describe how	Some children may
		children will be able to:	in hands-on	animals obtain their	think:
	Identifying, grouping and classifying Making observations to name, sort and	Talk about and describe	exploration of	food from plants	Only four legged
	organise items.	their body.	natural materials.	and other animals,	mammals, such as
	Pattern-seeking Identifying patterns and looking for relationships in enquiries where variables are difficult to control.	Talk about how they are the	(EYFS)	using the idea of a	pets, are animals.
		same and different from	To begin to make	simple food chain	Humans are not
	Research Using secondary sources of information to answer	others e.g. physical	sense of their own	and identify and	animals.
	scientific questions.	appearance, things we like,	life story and family	name sources for	Insects are not
		things we do, things we	history. (EYFS)	food. (Y2- Living	animals.
		believe etc.	To understand the	things and their	All 'bugs' or
		Talk about their senses and	key features of a	habitats)	'creepy crawlies'
		how we use them in	life cycle of a plant	Describe how living	such as spiders are
		everyday life.	and animal. (EYFS)	things are classified	part of the insect
		Talk about how they've	To begin to	into broad groups	group.
		changed throughout their	understand the	according to	Amphibians and
		time in year one.	need to respect and	common observable	reptiles are the
		Talk about and describe	care for the natural	characteristics and	same.
		different animals including	environment and all	based on similarities	
		what they eat and where	living things. (EYFS)	and differences	
		they live.		including micro-	
				organisms, plants	
				and animals.(Y6 –	
				Living things and their habitats)	
				Give reasons for	
				classifying plants	
				and animals based	
				on their specific	
				characteristics. (Y6	
				– Living things and	
				their habitats)	
				tileit Habitats)	

Spring	Plants	By the end of this unit	Plant seeds and	To observe and	Some children may
958		children will be able to:	care for growing	describe how seeds	think:
	Observation over time	Talk about and notice plants	plants. (EYFS)	and bulbs grow into	Plants are
	Observing changes that occur over a period of time ranging from minutes to months.	throughout the year.	To begin to	mature plants. (Y2 –	flowering plants
	Research	Talk about and describe	understand the	Plants)	that grow in pots
	Using secondary sources of information to answer scientific questions.	different plants.	need to respect and	Find out how plants	with coloured
	Comparative / fair testing	Talk about what plants we	care for the natural	need water, light	petals, leaves and a
	Comparative / fair testing Changing one variable to see its effect on another, whilst keeping all others the same.	eat.	environment and all	and a suitable	stem.
	Identifying, grouping and classifying	Talk about how to grow	living things. (EYFS)	temperature to	Trees are not
	Making observations to name, sort and organise items.	plants.	111116 (11116)	grow and stay	plants.
		Compare plants.		healthy.(Y2 – Plants)	All leaves are
		Talk about how they can		Identify and name a	green.
		look after plants.		variety of plants and	A trunk is not a
		Took arter plants.		animals in their	stem.
				habitats, including	Blossom is not a
				microhabitats. (Y2 –	flower.
				Living things and	nower.
				their habitats)	
				Identify and	
				describe the	
				functions of	
				different parts of	
				flowering plants. (Y3	
				– Plants)	
				Investigate the way	
				water is transported	
				within plants. (Y3 –	
				Plants)	
Summer	Everyday materials	By the end of this unit	Explore collections	Identify and	Some children may
	2. 2. , 2.2 ,	children will be able to:	of materials with	compare the	think:
		Talk about and notice	similar and/or	suitability of a	Only fabrics are
		objects throughout the year.	different	variety of everyday	materials.
			properties. (EYFS)	materials including	

	Comparative / fair testing Changing one variable to see its effect on another, whilst keeping all others the same. Identifying, grouping and classifying Making observations to name, sort and organise items.	Talk about and describe different objects/materials. Talk about and describe objects we use every day. Talk about how everyday objects are made (in a simple way) Compare objects. Talk about how we look after objects/or belongings.	Talk about the differences between materials and changes they notice. (EYFS) Explore how different materials sink and float. (EYFS)	wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. (Y2- Uses of everyday materials) Find out how shapes from social objects made from some materials can be changed by bending, squashing, twisting and stretching. (Y2 – Uses of everyday materials)	Only building materials are materials. Only writing materials are materials. The word 'rock' describes an object and not a material. Solid is another word for hard.
Throughout the year	Seasons Research Using secondary sources of information to answer scientific questions. Pattern-seeking identifying patterns and looking for relationships in enquiries where variables are difficult to control. Observation over time Observing changes that occur over a period of time ranging from minutes to months.	By the end of this unit children will be able to: Name the seasons and the time of year associated with them. Talk about and notice the seasons throughout the year. Talk about and describe the seasons. Talk about what we do to adapt to different seasons e.g. clothes, activities, physical environment, food, different plants and animals etc.	Understand the key features of a life cycles of a plant and animal. (EYFS) Explore the natural world around them. Describe what they can see, hear and feel whilst outside. (EYFS) Understand the effect of changing seasons on the natural world around them. (EYFS)	Recognise that light from the sun can be dangerous and there are ways to protect their eyes. (Y3 – Light) Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky. (Y5 – Earth and Space)	Some children may think: It always snows in winter. It is always sunny in the summer. There are only flowers in Spring and Summer. It rains most in Winter.