Cumwhinton School Curriculum - Science Y1 SPR						
Year	NC	<u>Plants</u>				
1	Content	Pupils should be taught to:				
		-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					
	Animals Including humans					
		Pupils should be taught to:				
		-identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals				
		-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, amphibians, reptiles, birds and mammals, including pets)				
-identify, name, draw and label the basic parts of the human body and say which part of the body is associated with ea						
	Everyday materials					
		Pupils should be taught to:				
		-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				
		-compare and group together a variety of everyday materials on the basis of their simple physical properties				
		Seasonal Changes				
		Pupils should be taught to:				
		-observe changes across the four seasons				
		-observe and describe weather associated with the seasons and how day length varies.				

Scientific Knowledge & Understanding Science Enquiry & Working Scientifically

Uses & Implications of Science today and for the future

Mapping across the Year

	AUTUMN	SPRING	SUMMMER
Scientific Knowledge & Understanding	Seasonal Change x 2 sessions <u>Seasonal Change</u> Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies Observations of the seasons and the weather will take place across the whole year, but the specific content & vocabulary teaching around day length, naming seasons etc. will take place here.	Seasonal Change x 2 sessions <u>Seasonal Change</u> Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies <u>Seasonal change - new season & how seasons affect plants</u>	Seasonal Change x 2 sessions <u>Seasonal Change</u> Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies <u>Seasonal change - new season & how seasons affect animals</u> <u>behaviour</u>
	Everyday materials 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 Compare and group together a variety of everyday materials on the basis of their simple physical properties	<u>Plants</u> 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	Animals including Humans Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals 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, amphibians, reptiles, birds and mammals including pets) Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense
Science Enquiry & Working Scientifically	Asking simple questions and recognising that they can be answered in different ways Observing closely, using simple equipment Performing simple tests Gathering and recording data to help in answering questions	Identifying and classifying Observing closely, using simple equipment Asking simple questions and recognising that they can be answered in different ways Gathering and recording data to help in answering questions	Identifying and classifying Observing closely, using simple equipment Asking simple questions and recognising that they can be answered in different ways Gathering and recording data to help in answering questions
Uses & Implications of Science today and for the future	Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork Test the properties of objects e.g. absorbency of cloths, strength of party hats made of different papers, stiffness of paper plates, and waterproofness of shelters. They should work scientifically to explore the answers to questions such as: What is the best material for an umbrella? For lining a dog basket? For curtains? For a gymnast's leotard?	Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork Where possible, children should observe the growth of flowers and vegetables they have planted themselves.	Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork Look for patterns between people e.g. Do people with big hands have big feet? Investigate human senses e.g. Which part of my body is good for feeling, which is not? Which food/flavours can I identify by taste? Which smells can I match?

CONCEPTUAL SCHOOL AMBITION DRIVERS						
	EYFS & KS1		LKS2	UKS2		
AUT	Diversity Truth		Fairness	Individuality		
SPR			Change	Resilience		
SUM	Responsibility		Equality	Sustainability		
Science - SEASONAL CHANGE - Throughout the whole year. YEAR 1 HUMANITY - Diversity Scientific Knowledge & Understanding Science Enquiry & Working Scientifically Uses & Implications of Science today and for the future						
	NC	CUMN	HINTON CURRICULUM			
Finding out (Facts & knowledge)	Seasonal Change Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies Observations of the seasons and the weather will take place across the whole year, but the specific content & vocabulary teaching around day length, naming seasons etc. will take place here. Seasonal change - new season & how seasons affect plants Seasonal change - new season & how seasons affect animals' behaviour	Teach the These 12 The montl The seaso The four s Different The weat We wear Plants cha There are Types of As the sea Days in sp	12 months of the year are January, February, March, April, May, Jur months fit into four seasons are spring, summer, autumn and winter. ns of the year repeat in a predictable cycle. ns repeat in a predictable cycle. seasons are spring, summer, autumn and winter. events take place in different seasons. her changes from season to season. different clothes in different seasons as the weather changes. nge in different ways as the seasons change. different types of weather. weather include cloudy and overcast, snow, sunny, sunny with few cloud asons change, so do the number of hours of daylight, the Sun rises and ring and autumn receive similar amounts of daylight.	e, July, August, September, October, November and December. ds, thunder and lightning, and rain. d sets at different times.		
Using (Applying & analysing)	Identifying and classifying Observing closely, using simple equipment Asking simple questions and recognising that they can be answered in different ways Gathering and recording data to help in answering questions	Throughou What is t What clot What do t What hap How long a Measure t Create a w Seasonal w	it the year as the seasons change. he weather like in ? hes would be best for this season? the trees and plants look like in this season? pens to wildlife/ animals? are the days? remperature/ rainfall/ wind gauge weather diary and compare weather in different seasons. walk around school grounds/ village to observe changes.			
Concluding (Evaluating & summarising)	Demonstrate their knowledge in different ways e.g. making a weather forecast video, writing seasonal poetry, creating seasonal artwork	Observe a Weather Seasonal p	nd describe weather associated with the seasons and how day length diary/forecast video poetry, Observe closely using simple equipment, Thermometer, Rain ga	varies. uge		

INNOVATION - Truth						
Scientific knowledge a Understanding Science Enquiry a working Scientifically Uses a Implications of Science today and for the future						
	NC	CUMWHINTON CURRICULUM				
Finding out (Facts & knowledge)	Plants 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	Chn learn that bulbs and seeds can grow into mature plants. They identify whether they are looking at a bulb or a seed. Observe, describe and compare a variety of seeds and bulbs. Chn to explore ways of grouping garden & wild plants and think about whether or not they have seen them before. Common garden plants in the United Kingdom include daffodil, rose, lavender, ivy, tulip, poppy, bluebell, strawberry and crocus. Common wild plants in the United Kingdom include dandelion, daisy, nettle, dock, thistle, buttercup, bramble, fern and St. John's wort. Trees can be identified from their shapes, leaves, fruit and seeds. Introduce language deciduous and evergreen Deciduous - a tree that sheds its leaves annually. Evergreen - retains its green leaves throughout the whole year. Some trees lose their leaves in the autumn, while some keep their leaves all year round. Chn to think about whether the trees lose their leaves or not in the autumn and whether or not the trees are familiar. Common trees in the United Kingdom include horse chestnut, oak, sycamore, willow, apple, chestnut, beech and fir. Chn learn the four main parts of a flowering plant - flower, stem, leaf and roots. They discuss the function of each of the four parts. The main parts of a a flowering plant - flower, stem, leaf and roots. They discuss the function of each of the four parts. The flower allows the plant to reproduce. The stem allows the plant to reproduce. The stem allows the plant to stand upright and transport water from the roots. The leaves help the plant to make its own food using sunlight. The roots approximation and the solid ad achor the plant in the around				
Using (Applying & analysing)	Identifying and classifying Observing closely, using simple equipment Asking simple questions and recognising that they can be answered in different ways Gathering and recording data to help in answering questions	Some common plants in the UK include dandelion, fern, sycamore, oak, and horse chestnut. Children to use a tally chart to investigate the local area and find out how many of 5 different plants there are. They can show their results on a simple pictogram. Then perform some data handling and analysis, considering which plant was the most common in our area.				
Concluding (Evaluating & summarising)	Where possible, children should observe the growth of flowers and vegetables they have planted themselves.	What are the names of trees that grow in our school grounds? What flowers grow on our school field/park? What is the most common plant around our school? What do I know about plants? What are the 4 main parts of a plant? Non Statutory Pupils might work scientifically by: observing closely, perhaps using magnifying glasses, and comparing and contrasting familiar plants; describing how they were able to identify and group them, and drawing diagrams showing the parts of different plants including trees. Pupils might keep records of how plants have changed over time, for example, the leaves falling off trees and buds opening; and compare and contrast what they have found out about different plants.				