Year	NC	Plants Plants
7 Eui 1	Content	Pupils should be taught to:
L	Content	-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 each sense.
		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.

Science

Mapping across the Year						
mapping dolog	AUTUMN	SPRING	SUMMMER			
Scientific Knowledge & Understanding	Seasonal Change x 2 sessions 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 x 2 sessions Seasonal Change Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies Seasonal change - new season & how seasons affect plants	Seasonal Change x 2 sessions Seasonal Change Observe changes across the 4 seasons Observe and describe weather associated with the seasons and how day length varies Seasonal change - new season & how seasons affect animals' behaviour			
	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	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	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	Fairness	Individuality
SPR	Truth	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	CUMWHINTON 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 12 months of the year are January, February, March, April, May, June, July, August, September, October, November and December. These 12 months fit into four seasons are spring, summer, autumn and winter. The months of the year repeat in a predictable cycle. The seasons repeat in a predictable cycle. The four seasons are spring, summer, autumn and winter. Different events take place in different seasons. The weather changes from season to season. We wear different clothes in different seasons as the weather changes. Plants change in different ways as the seasons change. There are different types of weather. Types of weather include cloudy and overcast, snow, sunny, sunny with few clouds, thunder and lightning, and rain. As the seasons change, so do the number of hours of daylight, the Sun rises and sets at different times. Days in spring and autumn receive similar amounts of daylight.	
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	Throughout the year as the seasons change. What is the weather like in? What clothes would be best for this season? What do the trees and plants look like in this season? What happens to wildlife/ animals? How long are the days? Measure temperature/ rainfall/ wind gauge Create a weather diary and compare weather in different seasons. Seasonal 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 and describe weather associated with the seasons and how day length varies. Weather diary/forecast video Seasonal poetry, Observe closely using simple equipment, Thermometer, Rain gauge	

Science - AUTUMN Everyday Materials

YEAR 1 HUMANITY - Diversity

Scientific Knowledge & Understanding Science Enquiry & Working Scientifically Uses & Implications of Science today and for the future

Concluding

(Evaluating &

summarising)

Using their observations and ideas to suggest answers

Gathering and recording data to help in answering

to questions

auestions

Can you link diverse materials with their properties and uses? NC CUMWHINTON CURRICULUM Explain that objects are made from materials, giving examples, including some objects that are made from more than one material. Everyday materials Finding out Distinguish between an object and the material from Show children examples of objects that are made from wood, metal, glass, fabric, paper, rock and plastic. Go through each of these examples to (Facts & explain the difference between an object and the material that it is made from, Ask children if they can think of any objects that can be made from which it is made different materials e.g. a bottle can be made from glass or plastic knowledge) Have a range of objects that are made of a range of materials. Identify and name a variety of everyday materials, Try to have objects that are; made from wood, metal, glass, fabric, paper, rock and plastic including wood, plastic, glass, metal, water, and rock Each made purely from one material e.g. a pencil might be made from lead, wood and metal, so a lollipop stick might be preferable. Children to group and sort objects according to their properties. Compare and group together a variety of everyday Teach the meaning of phrase 'properties of materials' materials on the basis of their simple physical The property of a material is something about it that we can measure, see or feel and helps us decide whether or not it is the best material. properties Whilst sharing a range of everyday materials with the children ask them to think of words to describe materials. Share some examples of basic describing words for materials and an explanation of how these words describe the properties of materials. Describe the simple physical properties of a variety Explain what each of the following properties means, with visual examples of materials / objects that have each property: hard, soft, bendy, stretchy, of everyday materials stiff, shiny, dull, rough, smooth bendy/not bendy; waterproof/not waterproof; absorbent/not absorbent; opaque/transparent. Asking simple questions and recognising that they can Test the properties of objects e.g. absorbency of cloths, strength of hats made of different papers, stiffness of paper plates, and waterproofness of Using be answered in different ways shelters. (Applying & They should work scientifically to explore the answers to questions e.g. Performing simple tests What is the best material to make a hat/ coat/ umbrella for The Gingerbread man? analysing) Using their observations and ideas to suggest answers Water proof investigation to questions What material is best for the windows for The Gingerbread Man's house? Gathering and recording data to help in answering Transparency investigation. Transparent, translucent, opaque.

Review differences between objects and materials

Record data from investigations.

What have they found out throughout their investigations?

Why did they chose certain materials for different purposes?

Review property grouping - have any moved groups now that you have completed some investigations?

Can you link diverse materials with their properties and uses? - Link to original topic question