Medium Term Plan: Seasons Cycle B Y1/2								
Enquiry Type:	Working Scientifically Concepts:	Previous Scientific Vocabulary	New Scientific vocabulary					
Observing over timePattern seeking	 Making observations and measuring them Engaging in practical enquiry Recording and presenting evidence Answering questions and concluding Communicating findings. 	 Autumn Spring Sum Summer Snow Winter Rain Trees Wind Plants 	 Deciduous Evergreen Temperature Rainfall Months of the year Pattern Graphs 					
Previous Learning End Point Assessment in this concept:	Previous Learning End Point Assessment in working scientifically concepts:	End Point Assessment Statements:						
Seasonal Change 1. I know some similarities and differences between the natural world around me and contrasting environments, drawings on my experiences and what has been read in class. 2. I understand some important processes and changes in the natural world around me including the seasons	I make observations of plants. I record my observations in drawings, writing and photographs. I use my senses to explore my environment	Seasonal Change 1. I can observe changes across the four seasons 2. I can observe and describe weather associated with the seasons						

	Revisit of knowledge short Afl lesson	Autumn 1 Lesson 1	Autumn 1 Lesson 2	Autumn 2 Lesson 1	Autumn 2 Lesson 2	Spring 2 Lesson 1	Spring 2 Lesson 2	Summer 2 Lesson 1	Summer 2 Lesson 2
Learning Question	What can I remember about seasons?	What is the weather like in Autumn?	What happens to plants and trees in Autumn?	What is the weather like in Winter?	What happens to plants and trees in Winter?	What is the weather like in Spring?	What happens to plants and trees in Spring?	What is the weather like in Summer?	What happens to plants and trees in Summer?
Enquiry Type		Observing over timePattern seeking	Observing over timePattern seeking	Observing over timePattern seeking	Observing over time Pattern seeking	Observing over timePattern seeking	Observing over timePattern seeking	Observing over timePattern seeking	Observing over timePattern seeking
Conceptual Knowledge	Prior unit end point assessment	I can observe and describe weather associated with the seasons	I can observe changes across the four seasons	I can observe and describe weather associated with the seasons	I can observe changes across the four seasons	I can observe and describe weather associated with the seasons	I can observe changes across the four seasons	I can observe and describe weather associated with the seasons	I can observe changes across the four seasons
Working Scientifically		I can record my measurements e.g. using prepared tables and block graphs.	I can record my observations e.g. using photographs and labelled diagrams	I can carry out: pattern seeking enquiries; and make observations over time.	I can record my observations e.g. using photographs and labelled diagrams	I can record my measurements e.g. using prepared tables and block graphs.	I can record my observations e.g. using photographs and labelled diagrams	I can carry out: pattern seeking enquiries; and make observations over time.	I can record my observations e.g. using photographs and labelled diagrams
Review/ Revisit	Class discussion: Name the seasons Match events	What words can we use to describe weather? Why is it important to know what the weather will be like each day?	Look back on work from previous learning. What happened in Autumn?	Re watch a couple of the Autumnal weather reports made by the children. Is the weather the same now?	Revisit the photo journeys made by the children what had happened to the plants and trees in Autumn?	Re watch a weather report from winter made by the children. Is the weather the same now?	Revisit the photo journeys made by the children what had happened to the plants and trees in Autumn and Winter?	Re watch a weather report from winter made by the children. Is the weather the same now?	Revisit the photo journeys made by the children what had happened to the plants and trees in Autumn, Winter & Spring?
Read	to seasons: Christmas, Easter, Diwali,	https://www.twinkl.co.uk/resource/t-t-291954-all-about-autumn-differentiated-comprehension-activity-sheets		https://www.twinkl.co.uk/resource/t-l-53343-60-second-reads-weather-and-the-seasons-activity-cards		https://www.twinkl.co.uk/resource/t-l-53969-little-acorns-the-seasons-differentiated-reading-comprehension-activity		https://www.twinkl.co.uk/resource/wl-summer- comprehension-differentiated-activity-sheets	
Teach	Chinese New Year, Halloween, long school holiday, their birthdays. Talk about different sorts of weather.	Share an Autumnal weather report. Discuss the symbols used and the words used by the presenter. What clothes would the children choose to wear? What activities could they do?	What do the children think happens to the trees and plants in Autumn? Revisit how to take a photograph using the ipads.	Share a winter weather report. Discuss the symbols used and the words used by the presenter. What clothes would the children choose to wear? What activities could they do?	Will the plants and trees look the same on our walk today? Why? Revisit how to take a photograph using the ipads.	Share a Spring weather report. Discuss the symbols used and the words used by the presenter. What clothes would the children choose to wear? What activities could they do?	Will the plants and trees look the same on our walk today? Why? Revisit how to take a photograph using the ipads.	Share a Summer weather report. Discuss the symbols used and the words used by the presenter. What clothes would the children choose to wear? What activities could they do? What should they do to keep safe in the sun?	Will the plants and trees look the same on our walk today? Why? Revisit how to take a photograph using the ipads.

	Children keep a weather	Autumnal walk in the local	Share a winter weekly	Winter walk in the local	Children keep a weather	Spring walk in the local	Share a Summer weekly	Summer walk in the local
	chart for the next week	area. Children work in	weather chart.	area following the same	chart for the next week	area following the same	weather chart.	area following the same
	using symbols. Measure	small groups to take	Ask questions:	route as the Autumnal	using symbols. Measure	route as the previous	Ask questions:	route as the previous
	temperature and rainfall.	photographs.	Which was the coldest	walk. Take photographs in	temperature and rainfall.	walks. Take photographs in	Which was the warmest	walks. Take photographs in
Practice		Choose a class (deciduous)	day?	the same locations.		the same locations.	day?	the same locations.
Fractice		tree to observe during the	What was the weather like				What was the weather like	
		year. Also observe an	on Tuesday?				on Tuesday?	
		evergreen tree.	Which day could you have				Which day would you go to	
		Choose an area to observe	made a snowman? etc				the seaside? etc	
		plants over the year.						
	Use the information from	Children use the	Use the information from	Children use the	Use the information from	Children use the	Use the information from	Children use the
	the weekly weather chart	photographs taken during	the weekly weather chart	photographs taken during	the weekly weather chart	photographs taken during	the weekly weather chart	photographs taken during
	to create a weather	the walk to recount the	to create a weather	the walk to recount the	to create a weather	the walk to recount the	to create a weather	the walk to recount the
Apply	forecast (include advice on	walk and add captions to	forecast (include advice on	walk and add captions to	forecast (include advice on	walk and add captions to	forecast (include advice on	walk and add captions to
Дри	what to wear and what	the photographs.	what to wear and what	the photographs.	what to wear and what	the photographs.	what to wear and what	the photographs.
	activities the audience		activities the audience		activities the audience		activities the audience	
	could do) in small groups		could do) in small groups		could do) in small groups		could do) in small groups	
	using imovie on the ipads		using imovie on the ipads		using imovie on the ipads		using imovie on the ipads	
	Watch each other's	In pairs look at their photo	Watch each other's	In pairs compare their	Watch each other's	In pairs compare their	Watch each other's	In pairs compare their
Reflect	weather reports. Do they	journeys.	weather reports. Do they	photo journey with the	weather reports. Do they	photo journey with the	weather reports. Do they	photo journey with the
Kenect	match the weather	Did they see what they	match the weather	Autumn one. What has	match the weather	Autumn and Winter ones.	match the weather	Autumn, Winter & Spring
	recorded?	expected?	recorded?	changed?	recorded?	What has changed?	recorded?	ones. What has changed?

End of Unit Assessment:

Order the seasons on a season wheel.

Add words to describe the weather and draw a deciduous tree in each season

Medium Term Plan: Living Things Cycle B Y1/2							
Enquiry Type:		Working Scientifically Concepts:	Previous Scientific Vocabulary	New Scientific vocabulary			
 Identifying, grouping and classifying Researching 	EngAn	aking observations and measuring them gaging in practical enquiry swering questions and concluding mmunicating findings.	Nature, animals, insects, minibeasts	Living things, plants, habitats, conditions, living, dead, alive, dark, light, water, damp, dry, micro-habitats, food chain, sources, human, adult, parent, young, offspring, water, food, air, exercise, hygiene, environment, skeleton, body organs, healthy diet, height, growth, weight			
Previous Learning End Point Assessment in this concept:	1	s Learning End Point Assessment in working ically concepts:	End Point Assessment Statements:				
1. I explore the natural world around me 2. I can describe some similarities and differences between the natural world around me and contrasting environments, drawing on my experiences and what has been read in class.	I make	observations of animals. observations of plants. I my observations in drawings, writing and raphs.	 I can identify and name a variety of plants and animals in their habitats, including microhabitats I can identify and name a variety of common animals that are carnivores, herbivores and omnivores. I can explore and compare differences between things that are living, dead and things that have never been alive I can identify that most living things live in habitats to which they are suited I can describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other I can describe how animals obtain their food using the idea of a simple food chain I can identify and name different sources of food 				

	Revisit of knowledge short Afl lesson	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6	Lesson 7
Learning Question	What do I know about living things?	Can I sort things into living, never lived or no longer alive?	Can I sort animals into herbivores, carnivores and omnivores?	Where does our food come from?	What is a food chain?	What is a habitat?	What lives in our school grounds?	Can plants and animals live in any habitat?
Enquiry Type		Identifying, grouping and classifying	Identifying, grouping and classifying	Identifying, grouping and classifying	Identifying, grouping and classifying	Researching	Identifying, grouping and classifying Observing	Researching
Conceptual Knowledge	Previous unit assessment end points.	I can explore and compare differences between things that are living, dead and things that have never been alive	I can identify and name a variety of common animals that are carnivores, herbivores and omnivores	I can identify and name different sources of food	I can describe how animals obtain their food using the idea of a simple food chain	I can identify that most living things live in habitats to which they are suited	I can identify and name a variety of plants and animals in their habitats, including microhabitats	I can describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other
Working Scientifically		I can describe the characteristics I used to identify a living thing.	I can use simple secondary sources to help me to classify animals	I can use simple secondary sources to help me to classify and sort	I can use my experiences of the world to suggest appropriate answers to questions.	I can use my experiences of the world to suggest appropriate answers to questions.	I can use simple secondary sources to help me to classify animals	I can use my experiences of the world to suggest appropriate answers to questions.
Review/ Revisit	Revisit learning from Reception	Revisit previous learning show photos of the children learning in Reception.	Revisit the 7 characteristics of a living thing p 3 Year 2 Study & Activity book	Revisit the new vocabulary Omnivore, herbivore and carnivore Match the definitions to the meanings	Complete the quiz on food sources https://www.educationquizzes .com/ks1/science/living-things-food-sources/	Match the key food chain words with their definition https://wordwall.net/resource /13415681/food-chain-keywords	Complete the quiz on each habitat https://school-learningzone.co.uk/key_stage_one/ks1_science/habitats_and_environment/habitats/habitats.html	True/false p 9 Year 2 Study & Activity book
Read		Year 2 Study & Activity book p2	Read the new vocabulary: Omnivore, herbivore and carnivore.	Key Stage 1 Study Book p8	Year 2 study book p 6 & 7	Year 2 Study & Activity book p4	Year 2 Study & Activity book p 8	Key Stage 1 Study Book p18

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	https://www.youtube.com/wa	https://www.youtube.com/wa	Where does food come from?	https://www.bbc.co.uk/teach/	Explain that there are lots of	https://www.youtube.com/wa	Discuss how animals adapt to
	tch?v=X5_3BFJFbRE	tch?v=6Xvi6ejc_9g	https://www.youtube.com/wa	class-clips-video/science-ks1-	different habitats around the	tch?v=ccqZrNvywAM	their habitats.
	List the 7 characteristics of all	Add the new vocabulary:	tch?v=7vH2yxjQ-uk	the-food-chain/zbr8d6f	world.	Discuss what microhabitats we	Share the clip of the rockpool
	living things.	omnivore, herbivore and			Show the children the website	might have in our local area	https://www.bbc.co.uk/bitesiz
	Share a simple flow diagram	carnivore to the learning wall.	Show the cards 'Where does	What is a food chain?	https://school-		e/clips/z8fnvcw
	with the children and how to	Write a definition of each and	food come from?'	Where do humans fit into food	learningzone.co.uk/key stage		Discuss how the creatures
	use it. Demonstrate with three	add it.	https://www.foodafactoflife.or	chains?	one/ks1 science/habitats and		living in a coastal rockpool
	things that are alive, never	Show the children a Venn	g.uk/5-7-years/where-food-	What is a producer?	_environment/habitats/habita		must adapt to the water being
	lived and no longer alive.	diagram and explain why	comes-from/plant-or-animal/	What is a consumer?	<u>ts.html</u>		heated by sunlight and diluted
		omnivore is in the middle.		What happens if you remove	and explain that they are going		by rainwater, as well as to the
Teach			Match the food and it source.	part of a food chain?	to be researchers today.		water levels dropping.
					Model how to create a simple		Anemones are animals which
					fact file with the Polar habitat.		are found all along the
					Name of habitat:		shoreline. Their tentacles have
					Describe it in three words:		hooks on the end for capturing
					Name at least two animals		animals which they eat. When
					that live here:		the tide is in, limpets and
					Why are they suited to living		periwinkles eat algae on the
					here?		rocks. Periwinkles also eat
					Name at least one plant that		seaweed.
					lives here:		
	Give children 3 more things to	Together sort 3 animals from	Share the plant and animals	Share a simple muddled food	All children to complete on the	Investigate microhabitats in	Revisit the habitats.
	sort (make sure there is one of	the video into the 3 groups.	food picture worksheet. Can	chain. Can the children reorder	ocean habitat. Come back as a	the local area.	Choose an animal in each
	each).		the children identify the	it correctly?	class and feedback.	Eg a pile of leaves, a bush, a	habitat. What does it eat?
Practice			source for each?	https://wordwall.net/resource		wall, a tree stump, under a	Notice that the food source is
				/8672702/science/y1-food-		rock.	also in the habitat.
				chain		Record using photographs.	Model writing a food chain to
							show this.
	Each group to sort 20	Children use the secondary	Children identify the source of	Children order four given food	Children complete for the	Use a simple classification	Children write a food chain for
	photographs into three sorting	source	each item that they ate for	chains	other 6 habitats.	sheet to identify the animals	an animal in one of the
	rings – alive, never alive, no	https://www.tes.com/teaching	breakfast.			and plants found in each	habitats.
	longer alive.	-resource/carnivores-				microhabitat.	
Apply	Use the ipads to record their	omnivores-and-herbivores-					
	sorting.	venn-diagram-6355183					
		to find information on					
		different animals and sort					
		them into the Venn diagram.	11 6				1 1 2 1 2
D-6	One stray. Have we all sorted	Rally Robin naming omnivores,	How could we find more	On stray. Have we all sorted	How could we find out more	Mix pair share. What did you	Mix pair share. Do they agree?
Reflect	them in the same way?	herbivores and carnivores.	information about our food?	them in the same way?	information about habitats?	find in each microhabitat?	
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End of Unit Assessment:

Yorkshire Wildlife Park needs us to design a habitat for a

Medium Term Plan: Plants Cycle B Y1/2								
Enquiry Type:	Working Scientifically Concepts:	Previous Scientific Vocabulary	New Scientific vocabulary					
 Comparative testing Research using secondary sources Identifying, classifying and grouping Observing over time 	 Asking questions Making observations and measuring them Engaging in practical enquiry Recording and presenting evidence Answering questions and concluding Evaluating and predicting Communicating findings. 	 Tree Flower Plant Petal Leaves Seeds Water Soil Stem Trunk 	 Root Germination Seedling Sun Energy Deciduous Evergreen Identify Temperature Bulb Habitat 					
Previous Learning End Point Assessment in this concept:	Previous Learning End Point Assessment in working scientifically concepts:	End Point Assessment Statements:						
 I plant seeds and care for growing plants. I can describe the key features of the life cycle of a plant I know what some parts of a flower are called I can identify the difference between a plant and a tree 	I make observations of plants. I record my observations in drawings, writing and photographs.	 I can identify and name a variety of common wild and garden plants and deciduous and evergreen trees I can identify and describe the basic structure of a variety of common flowering plants, including trees. I can identify and name a variety of plants in their habitats, including microhabitat I can observe and describe how seeds and bulbs grow into mature plants. I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy 						

	Revisit of knowledge short Afl lesson	Lesson 1	Lesson 2	Lesson 3	Lesson 4	Lesson 5	Lesson 6
Learning Question	What can I remember about plants?	Where do plants come from?	What do plants need to grow?	Can I identify plants?	Can I identify trees?	What grows in our school grounds?	What are the parts of a plant and tree called?
Enquiry Type		Observing over time	Comparative testingObserving over time	Identifying, classifying and grouping Research using secondary sources	Identifying, classifying and grouping Research using secondary sources	Identifying, classifying and grouping Research using secondary sources	Research using secondary sources
Conceptual Knowledge	Prior units end point assessment	I can observe and describe how seeds and bulbs grow into mature plants.	I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	I can identify and name a variety of common wild and garden plants	I can identify and name a variety of deciduous and evergreen trees	I can identify and name a variety of plants in their habitats, including microhabitat	I can identify and describe the basic structure of a variety of common flowering plants, including trees.
Working Scientifically		I can record my observations using photographs	I can plan how to use the resources provided to answer the questions. I can record my observations using photographs I can record my measurements using prepared tables.	I can use simple secondary sources (such as identification sheets) to name living things I can describe the characteristics I used to identify a living thing.	I can use simple secondary sources (such as identification sheets) to name living things I can describe the characteristics I used to identify a living thing. I can classify using simple sorting rings.	I can use simple secondary sources (such as identification sheets) to name living things I can describe the characteristics I used to identify a living thing. I can classify using simple sorting rings.	I can record my observations e.g. using photographs and label diagrams
Review/ Revisit	Share the children's learning from Reception. Ask questions about	Revisit a simple life cycle of a plant from the previous lesson.	Revisit knowledge from Reception.	Take observations/measurements of the seedlings and the plants	Take observations/measurements of the seedlings and the plants. Revisit learning from the previous lesson.	Take observations/measurements of the seedlings and the plants Revisit learning from the previous two lessons	Take observations/measurements of the seedlings and the plants. Use the identification sheets to name plants and trees on photos from previous weeks
Read	how they looked after the plants and what they found out.	Year 2 Science Study & Activity Book p 16 - 19.	Year 2 Science Study & Activity Book p 14	Year 1 Study & Activity Book p10	Year 1 Study & Activity Book p18 & 19	Year 1 Study & Activity Book p20	Year 1 Science Study & Activity Book P12 & 13 & p16 & 17
Teach	Children label a simple diagram of a flowering plant.	Show a short clip of a seed growing in to a plant. Introduce new vocabulary: germination and seedling.	How can we find out what plants need to grow? Talk about what they know about how much water, sun and warmth plants need to grow. Show the children the equipment.	Show the children a collection of plants and explain that you have muddled up the name tags. Discuss how you could solve this problem? Share an identification sheet. Model how to use it using some photographs of plants.	Could we use identification sheets to name trees? Share some photographs of trees. Introduce new vocabulary: Evergreen and deciduous and explain what they mean.	Can we use the identification sheets to find out what grows in the school grounds?	Share a diagram of a plant and a tree. What is similar/different? Introduce new vocabulary: root. Together label the parts of the plant and the parts of the tree.

	Children label a	In groups children decide how to	In small groups children choose two	Practise identifying plants from	Children use photographs of leaves	Children use the identification	Children label a diagram of a plant
	simple life cycle	care for their seeds (a mixture of	different places to put their two	photographs using the identification	to identify a small group of trees	sheets to identify a plant and a tree	and a tree.
	of a plant.	cress and broad beans) over the next	plants (two in full sunlight, two in	sheet.	using the identification sheet.	(and decide if it is deciduous or	
		few weeks.	shade).	Encourage them to use good	Encourage them to use good	evergreen) on the IWB.	
Practice		Where will they put them?	Children decide how much water to	descriptions of characteristics -	descriptions of characteristics -		
Fractice		How often will they water them?	give their plants (make sure there is	shape, size and colour.	shape, size and colour.		
		How will they observe what	a big difference).				
		happens?	Children decide how to record				
		How will they record what happens?	results. (photographs & measuring				
			height)				
		In pairs children prepare their seeds	Children set up their investigations	Children use the identification	Using photographs of trees and	In small groups investigate different	Children choose a photograph of a
		for the investigation.	and take their first observations	sheets to identify and name the	leaves children identify the trees and	parts of the school grounds eg Y1	plant and tree taken during the
		Do bulbs grow in the same way?	(photograph) and measurement	muddled up plants.	sort them into deciduous and	gardens, trees near Beighton Rd,	previous weeks and label
		As a class place a forced indoor	(height).		evergreen.	trees near Games yard, flower bed	
Apply		hyacinth bulb into a bulb vase.				outside staffroom.	
ДРРІУ		Over the next few weeks they will	Over the next few weeks children				
		create a photo diary of what	complete their observations and			Fill in the names of the plants and	
		happens to their seeds and the bulb.	measurements every few days.			trees found in each area and take a	
		Write a caption for each				photograph of each	
		photograph.					
		Mix, pair, share. Do the photographs	What do we think will happen to	One stray: Have the other tables got	One stray: Have the other tables got	Mix, pair, share.	***After a few weeks. Look at the
Reflect		look the same? Did the seeds grow	each plant?	the same answers? Why?	the same answers? Why?	Did the children all find the same	results. What did you find out?
		in the same way?	***	Which ones where the most difficult	Which ones where the most difficult	plants and trees in each areas?	What advice would you give to
		Compare to the bulb photo diary		to identify? Why?	to identify? Why?		someone who wanted to grow
		identify similarities and differences.			Why do you need to know if a tree is		plants?
					deciduous or evergreen?		

End of Unit Assessment:

Birley Moor Garden Centre has been in touch to ask for help.

They have had a delivery but none of the plants or trees are labelled. Can we help by identifying them and finding out which trees are deciduous and evergreen?

Create a fact file to explain how to look after plants.