Year 2 Autumn 2 Autumn 1 Spring 1 **Enquiry Questions** Why do different animals live in different places? What does my body need? Outcomes Do I eat more fruit and vegetables on a school day How would you group these plants and animals based than on the weekend? (Pattern seeking) on what habitat you would find them in? Pupils produce a frequency table show results of the (Identifying and classifying) Pupils identify a variety of species around school investigation. (plants, frogs, squirrels, insects). They then design an environment for their chosen living thing to live (like a hotel room). With a description of what it is like. Eg. For an insect it might be dark, warm and damp. Linked Texts Lunchbox: The Story of Your Food (Paperback) Why can't penguins fly? Linked Experiences N/A Overview Through the main enquiry type of pattern seeking, In this unit, pupils will think about the difference pupils will investigate the key requirements for life on between things that are living, dead and never alive. earth. They will begin collecting data from a variety of They will understand that not all living things are practical enquiries such as 'Do boys or girls wash their animals by discussing the key life processes. Pupils hands more times in a day?' and 'Do I eat more fruit will then explore different habitats around school and vegetables on a school day than on the weekend?' (pond, wooded area, grass) and discuss how the living Pupils will make simple predictions about the results of things they find are suited to their environment. As part an enquiry and record results as a tally, using the data of this, pupils will be able to explain why certain livings collected to answer a variety of questions. Pupils will things would not be able to survive in certain areas (eg. then keep a food and exercise diary and discuss the Why wouldn't a work survive for long on the grass?) importance exercise and of eating a variety of foods. Pupils will then explore a variety of food chains, understanding that some living things obtain their food from plants, whilst others obtain it from other animals. Knowledge and/or Skills Covered Ask and answer simple questions about what might Use first-hand observations with some simple happen (e.g. get hotter, faster) equipment (e.g. magnifying glass) Make more sophisticated recordings during the enquiry Identify differences and similarities in what they process (e.g. frequency tables where the template is observe Explain their findings verbally, through writing, and in given) Answer questions about their predictions and results age-appropriate graphic form (block diagrams, (e.g. were they right?) pictograms, simple tables)

<u>Year 2</u>			
National Curriculum Attainment Targets			
Find out and describe the basic needs of animals, including humans, for survival (water, food, air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene Notice that animals, including humans, have offspring which grow into adults Gather and record data to help in answering questions. Use their observations and ideas to suggest answers to questions.		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. Identify and name a variety of plants and animals in their habitats, including micro-habitats. 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. Identify and classify.	
Important Vocabulary			
Balanced diet, adult, young, toddler, child, teenager, heart rate, fat, sugars, lifestyle.		Habitat (and name some eg log, pond), Environment, Conditions (and describe eg damp, dark), Life cycle, Food source, Predator, Prey, Reproduce, Suited, Adapted	

Year 2				
Spring 2	Summer 1	Summer 2		
Enquiry Questions				
How does a plant get what it needs to survive?	How have the materials we use changed over time?	Which is the rainiest season?		
	Outcomes			
What happens to my seed after I have planted it? (observing over time)	How have the materials we use changed over time? (research)	Which is the rainiest season? (observing over time)		
Diary of how the height of their plant changes over time.	Short presentation to their peers explaining how one item has changed over time.	Pupils keep a diary of the number of times it rains each month over the course of the year. Pupils draw a bar graph/pictogram showing results.		
	Linked Texts			
The magic and mystery of trees		Plants: How they change with the seasons		
Linked Experiences				
	N/A			
	Overview	-		
Building on their knowledge from Year 1, pupils will again have the opportunity to seeds sprout and grow into mature plants. Pupils will practise measuring accurately (to the nearest cm) and use this to record the changes in height of their plant. Pupils will also explore the school grounds, noticing the growth of many plants, including dandelions. Pupils will also explore the requirements for plant growth. They will observe what happens if a plant is not watered, frozen or grown in the dark.	Building their knowledge of distinguishing between an object and the material from Year 1, pupils will learn to select appropriate materials for relevant uses. They will use their knowledge of the properties of materials to go on a material scavenger hunt, selecting objects from around the school site that match the specification. Through the main enquiry type of research, pupils will look at how the materials we use has changed over time. Pupils will select an item, such as an umbrella, and investigate how the materials used to make it have changed. They will use a range of books and online sources and present their findings to their peers.	Building on their knowledge from year 1, pupils will comment on the weather and temperature they expect with each season. Pupils will document the number of days it rains across the year and begin to analyse the data at the end of the Summer term. Pupils will then get the opportunity to present their data as a simple graph and suggest further questions they would like to explore related to this topic.		
	Knowledge and/or Skills Covered			
Give a brief overview of their plans, in a context given to them, using some science vocabulary Measure to nearest cm (and equivalents) Make comments about the method (e.g. were there unforeseen variables?)	Start to select and use a range of books, websites, photos and other sources to learn about science Use everyday words but in a more precise way; occasionally use scientific vocabulary Show curiosity, e.g. voluntarily ask questions about what they have heard, read or observed Explain their findings verbally, through writing, and in age-appropriate graphic form (block diagrams, pictograms, simple tables)	Explain their findings verbally, through writing, and in age-appropriate graphic form (block diagrams, pictograms, simple tables) Answer questions about their predictions and results (e.g. were they right?)		
National Curriculum Attainment Targets				
Observe and describe how seeds and bulbs grow into mature plants.	Ask simple questions and recognise that they can be answered in different ways.	Use their observations and ideas to suggest answers to questions.		

Year 2

Find out and describe how plants need water, light and	Identify and compare the suitability of a variety of	Performing simple tests	
a suitable temperature to grow and stay healthy.	everyday materials, including wood, metal, plastic,		
Observe closely using simple equipment.	glass, brick, rock, paper and cardboard, for particular		
	uses.		
	Find out how the shapes of solid objects made from		
	some materials can be changed by squashing,		
	bending, twisting and stretching.		
Important Vocabulary			
Growth, Shoot, Mature, Healthy, Earth (i.e. soil),	Man-made, natural, suitable, useful, function, property,	Seasonal, Daily (weekly monthly etc), Fortnight,	
Nutrients, Function	rigid, flexible, waterproof.	January, February (etc), Poles, Equator, Temperature	