	Class 2 Years 1/2							
KS1 Working Scientifically.	 Asks simple questions and recognises that they can be answered in different ways. Observes closely, using simple equipment. Performs simple tests. Can identify and classify. Uses their observations and ideas to suggest answers to questions. Gathers and records data to help in answering questions. 							
Term	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
Key knowledge	I can identify and name common animals. I Can describe how animals including humans have offspring which grow into adults, using the appropriate names for the stages I know the basic needs of animals for survival	 I know that humans have offspring. I understand the basic needs for human growth and survival. I Know that exercise is important to humans and can explain why. I Know the different food groups and the benefits of each as part of a healthy, balanced diet I Know which food groups common foods belong to. I Know about general hygiene and its importance and can state examples of hygienic practice. 	a variety of congarden plants deciduous and I Know and describe the Evariety of complants, includ I Know that from either seedlings and grow into mail I Know that have flowers vinto seeds, be I know that need to be platimes of the y	d evergreen trees can identify and pasic structure of a amon flowering ng trees. plants may grow eds or bulbs. t seeds and bulbs and then grow into then continue to ture plants. mature plants may which then develop rries and fruits etc. seeds and bulbs anted at particular	the material from I can identify a everyday materi glass, metal, waterials I can describe properties of a waterials I know why an materials make to specific purpose hard, heavy and useful for construseful for construseful for construsive I know how the can make it useful purposes (for exwaterproof so it for clothing but outdoor play equal to I know that did the same proper plastic can bothus I Know and can	the simple physical ariety of everyday d how the properties of them particularly useful for some is a durable material so is uction of buildings). The properties of a material for a range of different ample, plastic is can be used to coat fabric can also be used for uipment) ferent materials can share tries (for example glass and		

			 I know that some plants are better suited to growing in full sun and some grow better in partial and full shade. I Knows that plants need water, light and a suitable temperature to grow and stay healthy I Know and can identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. I Know the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant. I Know through investigation, the ways in which water is transported within plants I Know the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. 	glass, brick, rock, paper and cardboard are particularly suited to specific purposes I Know how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching I Know the difference between materials that are transparent, translucent and opaque.
Key Skills	 Ask questions and use secondary sources to find out about the life cycles of some animals Observe animals growing over a 	 Investigate the effect of exercise on their bodies Classify food in a range of ways, including using the Eatwell guide Investigate washing hands, using glitter gel 	 Can sort and group parts of plants using similarities and differences e.g. the shape of leaves, the colour of the flower/blossom. Can use simple charts and Venn diagrams etc. to identify and classify plants. 	 Compare and group together a variety of everyday materials on the basis of their simple physical properties. Classify objects made of one material in different ways e.g. a group of objects made of metal. Classify one type of object made from a range of materials e.g. a collection of spoons
	period of time e.g.	Describe, using diagrams, the life cycle of	 Use photographs and their own observations to talk about how 	made of different materials.

chicks, caterpillars, a baby

- Ask questions of a parent about how they look after their baby
- Ask pet owners questions about how they look after their pet
- some animals, including humans, and their growth to adults e.g. by creating a life cycle book for a younger child
- Measure/observe how animals, including humans, grow.
- Collate what they know about looking after a baby/animal by creating a parenting/pet owners' guide
- Explain how development and health might be affected by differing conditions and needs being met/not met

plants change over time (e.g. seed to sapling to tree) and over the year (deciduous and fruit bearing trees).

- Plant seeds and observe how they grow and change by making simple observations.
- Make close observations of plants, including trees leaves, seeds, flowers etc.
- Point to and name the parts of a plant, recognising that they are not always the same e.g. leaves and stems may not be green, the leaves are different shapes.
- Make close observations of seeds and bulbs
- Classify seeds and bulbs
- Research and plan when and how to plant a range of seeds and bulbs
- Look after the plants as they grow weeding, thinning, watering etc.
- Make close observations and measurements of their plants growing from seeds and bulbs
 Make comparisons between plants as they grow
- Can spot similarities and difference between bulbs and seeds

- Chosen an appropriate method for testing an object for a particular property.
- Use their test evidence to answer the questions about properties e.g. Which cloth is the most absorbent?
- Test the properties of objects e.g. absorbency of cloths, strength of party hats made of different papers, stiffness of paper plates, waterproofness of shelters.
- Investigate and observe what happens to different materials during testing and use this to inform explanation of their properties
- Investigate which materials are fit for a purpose e.g. What is the best material for an umbrella?
- Explain from their observations how materials change when a force is exerted on them by squashing, bending, twisting and stretching.
- Investigate the transparency of objects, recording class data in a table and drawing simple conclusions from the findings.
- Ask and answer questions about everyday materials

Enrichment		Link to PE curriculum and	Opportunity to use the school	
opportunities		effect of exercise on	field to observe plants growing as	
		health.	well as the planters and Mary	
			prayer garden.	
Previous	<u>EYFS</u>	EYFS	EYFS	EYFS
learning	Summer 1	Autumn 1	Spring 2	Spring 1
	<u>Dinosaurs</u>	All about me	Growing plants	<u>Transport</u>
	I can identify different	I know about how I have	I can plant seeds and observe	Designing vehicles by junk modelling.
	animals and their	changed from a baby to a	what happens.	
	habitats.	child	I can observe growth.	
	Spring 2	Summer 1	I can identify what plants need to	
	<u>Minibeasts</u>	Rumble in the jungle	survive.	
	I can observe and sort	I can explain how to look	I can explain how to look after	
	minibeasts	after myself (basic	myself (basic hygiene)	
	Summer 1	hygiene)		
	Rumble in the jungle			
	I can name animals.			
	I can compare animals			
	in our country with			
	animals in a different			
	country.			
	Summer 2			
	Pirates and mermaids.			
	I can explain how to			
	look after animals.			
	I can name animals			
	that live under the sea.			