

Year 2 Science

Plants	Animals including Humans	Everyday materials	Living things and their habitats	Working Scientifically
P1 I can observe and describe how seeds and bulbs grow into mature plants	A1 I can notice that animals, including humans, have offspring which grow into adults	E1 I can identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses.	L1 I can explore and compare the differences between things that are living, dead, and things that have never been alive.	<p>I can observe closely, using simple equipment and measurement</p> <p>I can perform simple tests</p> <p>I can identify and classify</p> <p>I can use my observations and ideas to suggest answers to questions</p> <p>I can gather, record and communicate data and findings to help in answering questions.</p> <p>I can use scientific language and read and spell age-appropriate scientific vocabulary</p>
P2 I can find out and describe how plants need water, light and a suitable temperature to grow and stay healthy	A2 I can find out about and describe the basic needs of animals, including humans, for survival (water, food and air)	E2 I can find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	L2 I can 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, and how they depend on each other	
	A3 I can describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene		L3 I can identify and name a variety of plants and animals in their habitats, including micro-habitats.	
			L4 I can 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.	

Topic coverage

Autumn Pirates	Spring Africa	Summer I spy marmalade sandwiches (London)
Working scientifically E1, E2	Working scientifically A1, A2, A3 P1-P2	Working scientifically L1, L2, L3, L4
Vocabulary		

<p><u>Materials & their uses</u></p> <p>As for Y1 + stiff, shiny, dull, rough, smooth, waterproof, absorbent, transparent, opaque, brick, fabric, foil, squashing, bending, twisting, stretching, elastic</p>	<p><u>Animals including humans</u></p> <p>Survival, water, air,(oxygen) food, adult, baby, offspring, kitten, calf, puppy, foal exercise, hygiene, types of food</p> <p><u>Plants</u></p> <p>Seeds, bulb, water, light, temperature, growth. Revise roots, stem, leaves, petals from Y1</p>	<p><u>Living things and their habitats</u></p> <p>Living, dead, never been alive, habitat, micro-habitat</p> <p>energy, food chain, prey, predator woodland, pond, desert, seashore, ocean, rainforest</p>
<p>Working Scientifically Vocabulary</p>		
<p><u>Question, prediction, method, variables, fair test, recording, report, conclude, evaluate (NC)</u></p> <p>Investigation, enquiry, what to change, what we used, what we did, what we found out</p> <p>Investigation cycle, question, prediction, method answer, observe, observing, equipment, identify, classify, sort, group, record, diagram, chart, map data, compare, contrast, describe, biology, predict, method, results</p>		
<p>I will know..</p>		
<ul style="list-style-type: none"> - the names of different materials - why certain materials are used/chosen for specific objects and purposes - which materials are natural and which are man made - how to investigate how some solid objects can be changed by squashing, bending, twisting 	<ul style="list-style-type: none"> - the names of adult and baby animals and be able to match them - the stages of life in a human – baby, toddler, child, teenager, adult, pensioner - that animals and humans need water, food, shelter and oxygen to survive - the names of the different food groups 	<ul style="list-style-type: none"> - which things are alive and why - which things are were alive and are now dead and why - which things have never been alive and why - how to identify and classify (the above) - what a habitat is - that habitats are different depending of the need of the animal and plant

<ul style="list-style-type: none"> - how to begin to carry out a simple test to find out which materials are best for a question set - how to observe (look at) how materials change - how to record what I see and find out by drawing, writing, speaking and recording using technology (i pad) - the meaning of the scientific words for each topic and will be reading, writing and using them confidently 	<ul style="list-style-type: none"> - which food belongs to which food group - that a balanced diet with a bit of everything in moderation is best - that daily exercise is important for us to stay healthy - that washing my hands, body, hair and clothes helps me to stay healthy - cleaning my teeth helps me to have strong teeth so that I can eat a healthy diet and be healthy - how to identify and classify foods - how to carry out a simple test on how exercise effects the body - how to record what I see and find out by drawing, writing, speaking and recording using technology (i pad) - the meaning of the scientific words for each topic and will be reading, writing and using them confidently <p style="text-align: center;">Plants</p> <ul style="list-style-type: none"> - that seeds and bulbs grow into plants - the difference between a seed and a bulb 	<ul style="list-style-type: none"> - that both the habitats and animals/plants need each other to survive - what a micro habitat is - the names of a variety of animals and plants and their habitats - what a food chain is - why food chains are important for survival and keeping a balance - how to sequence a life cycle - that animals eat other animals and plants - the names of different food sources - how to carry out a simple test using the investigation cycle - how to record what I see and find out by drawing, writing, speaking and recording using technology (i pad) - the meaning of the scientific words for each topic and will be reading, writing and using them confidently -
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	<ul style="list-style-type: none">- that plants need light, water, a suitable temperature and food- how to carry out a simple test to find out what plants need to grow- how to record what I see and find out by drawing, writing, speaking and recording using technology (i pad)- the meaning of the scientific words for each topic and will be reading, writing and using them confidently	
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