



Science Curriculum Overview CYCLE A KS1

CYCLE A	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Question	<i>What do humans need to grow, stay healthy, and survive?</i>	<i>Why are different materials used for different purposes?</i>	<i>What do animals need to survive?</i>	<i>How does the world change across the seasons? (Spring and Summer)</i>	<i>Why do animals live in different habitats?</i>	<i>What do plants need to grow and stay healthy?</i>
NC Reference	Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	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.	Find out and describe the basic needs of animals, including humans, for survival (water, food and air)	Observe changes across the four seasons. Observe and describe weather associated with the seasons and how day length varies.	Identify that most living things live in habitats to which they are suited. Describe how different habitats provide for the basic needs of different kinds of animals and plants, and how	Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.



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	Identify, name, draw and label the basic parts of the human body and say which part is associated with each sense.	Identify and compare the suitability of a variety of everyday materials... for particular uses.			they depend on each other.	
Other NC links	PSHE / Health & Wellbeing Understanding how to keep our bodies healthy. Knowing what foods help us stay strong and well. Learning about hygiene and why it matters. PE Developing fitness through movement. Understanding the	DT Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics. Explore and evaluate a range of existing products.	Geography Use basic geographical vocabulary to refer to key physical features, including: forest, hill, mountain, soil, valley, vegetation, season and weather. English Develop pleasure in reading,	Geography Use simple fieldwork and observational skills to study the geography of their school and its grounds.” (e.g., observing seasonal changes) Maths Measure and begin to record...	Geography Identify seasonal and daily weather patterns in the United Kingdom. Use world maps, atlases and globes to identify the United Kingdom and its countries, as well as the countries,	Geography Use simple fieldwork and observational skills to study the key human and physical features of the surrounding environment. (e.g., identifying where plants grow) Maths



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	importance of exercise for health.	Art Use a range of materials creatively to design and make products. Maths Compare, describe and solve practical problems for... size, length, mass, volume.	motivation to read, vocabulary and understanding. Maths Sort objects into simple categories.	time (hours, minutes, seconds). (e.g., day length changes) Art Use a range of materials creatively to design and make products. (e.g., seasonal art)	continents and oceans. Art Use drawing, painting and sculpture to develop and share their ideas, experiences and imagination. DT Build structures, exploring how they can be made stronger, stiffer and more stable	Measure and begin to record... length and height. (e.g., measuring plant growth) English Write sentences by sequencing sentences to form short narratives. (e.g., writing about a plant's growth journey) DT "Select from and use a range of tools and equipment to perform practical tasks."
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Asking questions	Ask simple questions such as: "What helps us stay healthy?" "Why do we need food, water and air?"	Ask: "Why is this material used?" "What makes it suitable?"	Ask: "What do animals need?" "How do they stay alive?"	Ask: "What changes in spring?" "How is summer different?"	Ask: "Why does this animal live here?" "What does it need from its habitat?"	Ask: "What helps plants grow?" "Why do plants need light?"
Investigating	Explore healthy and unhealthy foods. Investigate simple hygiene routines (washing hands, brushing teeth).	Test materials for strength, flexibility, waterproofing.	Explore what pets need (food, water, shelter).	Investigate weather patterns and day length.	Explore microhabitats (logs, grass, soil). Investigate what animals find in different habitats.	Test what happens when plants lack water, light or warmth.
Identifying and Classifying	Sort foods into groups (healthy/unhealthy). Identify body parts and their functions.	Group materials by properties (hard/soft, rough/smooth, bendy/stiff).	Identify common animals.	Sort seasonal pictures or weather types.	Sort animals by habitat (woodland, ocean, desert).	Sort plants by type (wild/garden, deciduous/evergreen).



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Observing and measuring	Observe changes in exercise (heart rate, breathing). Notice how bodies change as they grow.	Observe how materials behave when bent, twisted, squashed.	Observe how animals grow from young to adult.	Measure temperature, rainfall, daylight hours.	Observe how habitats differ (light, shade, moisture).	Measure plant growth over time. Observe how seeds and bulbs grow.
Analysing and Concluding						
Recording and Evaluating	Record simple results (tally of healthy choices, exercise effects). Evaluate which habits keep us healthy.	Record test results using simple tables or drawings.	Record animal groups or needs using charts or diagrams.	Record weather in charts or diaries.	Record findings using simple maps, drawings or tables.	Record growth in tables, drawings or simple graphs
Science Vocabulary <i>'Talk like a scientist'</i>	Healthy, exercise, hygiene, food, water, air, grow, survive.	Material, property, waterproof, absorbent, strong, flexible, suitable.	Survive, food, water, air, herbivore, carnivore, omnivore, adult, offspring.	Season, spring, summer, weather, temperature, day length.	Habitat, microhabitat, shelter, food chain, suited, depend.	Seed, bulb, grow, water, light, temperature, healthy, mature plant