



Primary curriculum overview

Science curriculum topics are colour-coded throughout the primary curriculum as follows:

Animals including humans = Orange

Materials & States of Matter = Blue

Habitats & plants = Green

Forces = Light grey

Living Things = Pale yellow

Electricity = Light brown

Light = Yellow

***Topics left in white are standalone units*.**

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	Animals including humans In this topic, children will learn about the basic parts of the human body and explore their five senses using a wide range of activities.	Seasonal changes CHN explore their local environment (school grounds or local park) to find out about the plants and animals. Children will learn to name and identify common wild & garden plants, including trees, so they are familiar with common names and able to use these in Year 2 and beyond.	Habitats CHN explore their local environment to find out about the plants and animals that live in their locality. Children will learn to name and identify common wild and garden plants, including trees, so they are familiar with common names and able to use these in Year 2 and beyond.	Everyday materials CHN will plan an expedition to the polar regions, learning about properties of different materials, and a range of living things in the polar regions.	Plants CHN will investigate invertebrates and other plants and animals in the local area.	Animals including humans CHN will use the theme of celebrations to explore a number of curriculum areas, including everyday materials, plants and light. Activities offer opportunities for cross-curricular work and investigation.
Year 2	Living things and their habitats	Animals including humans	Uses of everyday materials	Animals including humans	Plants This topic brings	Animals including humans

	This topic brings together a study of living things, habitats and growing plants and is strongly focussed on outdoor learning and investigations.	In this topic, CHN explore the importance of exercise, diet and good hygiene, building on the Who am I? topic in Year 1.	This topic explores the properties & uses of everyday materials, set in the context of meeting, talking to & feeding the Materials Monster.	Youngers CHN will learn that animals, including humans, have offspring which grow into adults.	together study of living things and habitats and is strongly focussed on outdoor learning and investigations.	This topic explores food, including making healthy food choices, and cooking various different foods.
Year 3	Rocks, Soils and Fossils. Covers the properties and uses of rocks, the rock family, soils and fossils. CHN work scientifically on a variety of investigations and longer tasks to learn about rocks.	Animals including humans CHN learn about skeletons, muscles and joints and where animals get food from and why it is important.	Light and shadows CHN work scientifically on different challenges to learn about the wonders of light, including reflections and shadows.	Plants CHN learn about the different parts of plants, what plants need to live, water transportation in plants & pollination.	Forces and magnets CHN investigate magnets & their uses, learn what makes magnetic poles special, and learn that some forces, such as, magnetic force can act without contact.	Animals including humans CHN continue their learning by work scientifically on a variety of challenges linked to food and their bodies.
Year 4	Animals, Including Humans CHN learn about digestion and different types of teeth, before exploring deadly predators, their prey, and exploring food chains. They work scientifically throughout the topic, using enquiry, practical experiments and hands-on research.	Living Things and their Habitats CHN will learn that living things can be grouped in a variety of ways & explore & use keys to identify and name living things. Finally, they look at how changes to habitats can pose dangers to living things.	States of Matter CHN will compare & group materials together, according to whether they are solids, liquids or gases. They will observe that some materials change state when heated or cooled, and they will identify the part played by evaporation and condensation in the water cycle.	States of Matter CHN will compare & group materials together, according to whether they are solids, liquids or gases. They will observe that some materials change state when heated or cooled, and they will identify the part played by evaporation and condensation in the water cycle.	Sound CHN will encounter how sounds are made on a variety of instruments and how they can be changed in volume, pitch and over distance. They will explore making sounds on a range of objects, in order to investigate how sounds are created to make music.	Electricity CHN revisit some uses of electricity and the importance of safety before constructing simple circuits. This supports learning later on in Year 6.
Year 5	Earth and Space CHN will learn about space. Starting with the Solar System, they look next at how ideas about space have changed over time before they explore what causes us to experience night & day on Earth.	Forces CHN will learn about forces & machines. They start with the force of gravity then study friction forces, including air and water resistance, before investigating how simple machines work.	Properties and Changes of Materials The CHN learn about materials & how they change. First they test properties of materials before looking at how materials dissolve, what a solution is and the process of evaporation.	Properties and Changes of Materials The CHN learn about materials & how they change. First they test properties of materials before looking at how materials dissolve, what a solution is and the process of evaporation.	Animals, Including Humans CHN look at and describe the changes as humans develop to old age. Pupils draw a timeline to indicate stages in the growth & development of humans & learn about the changes experienced in puberty.	Living Things and their Habitats CHN look at the life cycles of various species including mammals, amphibians, fish & birds. Additionally, CHN describe the life process of reproduction in plants & animals.
Year 6	Animals, Including Humans CHN build on learning from Years 3 and 4 about the	Living Things and their Habitats CHN look at	Evolution and Inheritance Building on what they	Evolution and Inheritance CHN look at evolution &	Electricity CHN learn to use scientific symbols for	Light CHN are introduced to the concept of light

	<p>main body parts and internal organs. It considers life processes that are internal to the body, such as the circulatory system. The impact of lifestyle on bodies, particularly of humans, is also considered.</p>	<p>classification system in more detail. The topic is divided into two units, CHN first revisit their knowledge of classification and creating keys, before developing their knowledge by looking at fungi and bacteria. CHN learn about Carl Linnaeus, the scientist who first made important the function of naming and classifying to 'identify' organisms.</p>	<p>learned about fossils in Year 3, children find out more about how living things have changed over time. They are introduced to the idea that characteristics are passed from parent to their offspring.</p>	<p>Charles' Darwin's theory of natural selection, as well as palaeontologist Mary Anning's work with fossils.</p>	<p>components in a circuit, as well as considering the effect in more detail of changing components in a circuit. The children have the opportunity to apply their learning by creating an electronic game.</p>	<p>travelling in straight lines. It starts by looking at beams of light and how light travels to enable children to understand how we see things. This understanding is then applied to the production of shadows and starts to look at how light is reflected. Building on from Year 3, the CHN learn about the realm of coloured light and rainbows, using scientific skills to raise and answer questions.</p>
--	---	--	--	---	---	---