



Science NC Coverage Grid KS1

Topic area Biology/Chemistry/Physics		Animals including humans <i>Pupils should be taught to</i>	Plants <i>Pupils should be taught to</i>	Everyday materials <i>Pupils should be taught to</i>	Seasonal Change <i>Pupils should be taught to</i>
Year 1	Year 1 PoS (Knowledge to be taught)	<ul style="list-style-type: none"> -identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals -identify and name a variety of common animals that are carnivores, and omnivores herbivores -describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets) -identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense. 	<ul style="list-style-type: none"> -identify and name a variety of common wild and garden plants, including deciduous and evergreen trees -identify and describe the basic structure of a variety of common flowering plants, including trees. 	<ul style="list-style-type: none"> -distinguish between an object and the material from which it is made -identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock -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. 	<ul style="list-style-type: none"> -observe changes across the four seasons -observe and describe weather associated with the seasons and how day length varies.
	Working Scientifically (skills) <i>Pupils can work scientifically by:</i>	<ul style="list-style-type: none"> -using their observations to compare and contrast animals at first hand or through videos and photographs, -describing how they identify and group them; - grouping animals according to what they eat; and using their senses to compare different textures, sounds and smells. 	<ul style="list-style-type: none"> -observing closely e.g magnifying glasses, -comparing and contrasting familiar plants; -identify and group (classify) ,drawing diagrams showing the parts of different plants including trees. 	<ul style="list-style-type: none"> -performing simple tests to explore questions, for example: 'What is the best material for an umbrella? ...for lining a dog basket? ...for curtains? ...for a bookshelf? ...for a gymnast's leotard?' 	<ul style="list-style-type: none"> - making tables and charts about the weather; and making displays of what happens in the world around them, including day length, as the seasons change.



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Topic area Biology/Chemistry/Physics		Animals including humans <i>Pupils should be taught to</i>	Living Things and Their Habitats <i>Pupils should be taught to</i>	Plants <i>Pupils should be taught to</i>	Materials and their properties <i>Pupils should be taught to</i>
Year 2	Year 2 PoS (Knowledge to be taught)	<ul style="list-style-type: none"> -notice that animals, including humans, have offspring which grow into adults -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. 	<ul style="list-style-type: none"> -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, and how they depend on each other -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. 	<ul style="list-style-type: none"> -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. 	<ul style="list-style-type: none"> -identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, 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.
	Working Scientifically <i>Pupils work scientifically by:</i>	<ul style="list-style-type: none"> - observing, through video or first-hand observation and measurement, how different animals, including humans, grow; - asking questions about what things animals need for survival and what humans need to stay healthy; and suggesting ways to find answers to their questions. 	<ul style="list-style-type: none"> - sort and classify living things - exploring questions for example: <i>Is a deciduous tree dead in winter? (how could we find out?)</i> -construct a simple food chain -research/describe the conditions in different habitats and its impact 	<ul style="list-style-type: none"> - observing and recording, with some accuracy, the growth of a variety of plants as they change over time from a seed or bulb, or observing similar plants at different stages of growth; - setting up a comparative test to show that plants need light and water to stay healthy. 	<ul style="list-style-type: none"> - comparing the uses of everyday materials in and around the school with materials found in other places (e.g home or park) -observing closely, identifying and classifying the uses of different materials, and recording their observations.