

Science Curriculum Map – Year 2



| Year 1 | Main objectives of Unit: | Key Learning: | Working Scientifically Skill Focus: | By the end of this topic, the children will know this vocabulary: |
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| Autumn 1 | <p>Living Things and Their Habitat:</p> <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. | <p>Living Things and Their Habitat:</p> <ul style="list-style-type: none"> All objects are either living, dead or have never been alive. Living things are plants (including seeds) and animals. Dead things include dead animals and plants and parts of plants and animals that are no longer attached e.g. leaves and twigs, shells, fur, hair and feathers (This is a simplification, but appropriate for Year 2 children.) An object made of wood is classed as dead. Objects made of rock, metal and plastic have never been alive (again ignoring that plastics are made of fossil fuels). | <p>Living Things and Their Habitat:</p> <ul style="list-style-type: none"> Identify, classify and Group. Gather and record data to help in answering questions. Can recall and use KS1 appropriate vocabulary to communicate their ideas. | <p>Living Things and Their Habitat:</p> <p>Living, dead, never been alive, suited, suitable, basic needs, pond, woodland, under logs, in bushes,</p> |
| Autumn 2 | <p>Animals including humans – Growth and survival:</p> <ul style="list-style-type: none"> Notice that animals, including humans, have offspring which | <p>Animals including humans – Growth and survival:</p> <ul style="list-style-type: none"> Animals, including humans, have offspring which grow into adults. | <p>Animals including humans – Growth and survival:</p> <ul style="list-style-type: none"> Using their observations and ideas to suggest answers to questions. | <p>Animals including humans – Growth and survival:</p> <p>Offspring, reproduction, growth, child, young/old stages, chick/hen,</p> |

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| | <p>grow into adults.</p> <ul style="list-style-type: none"> 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. | <p>In humans and some animals, these offspring will be young, such as babies or kittens, that grow into adults. In other animals, such as chickens or insects, there may be eggs laid that hatch to young or other stages which then grow to adults. The young of some animals do not look like their parents e.g. tadpoles.</p> <ul style="list-style-type: none"> All animals, including humans, have the basic needs of feeding, drinking and breathing that must be satisfied in order to survive. To grow into healthy adults, they also need the right amounts and types of food and exercise. Good hygiene is also important in preventing infections and illnesses. | | <p>baby/child/adult, caterpillar/butterfly, exercise, heartbeat, breathing, hygiene, germs, disease, food types, meat, fish, vegetables, bread, rice, pasta.</p> |
| <p>Spring 1</p> | <p>Uses of Everyday Materials:</p> <ul style="list-style-type: none"> Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, | <p>Uses of Everyday Materials:</p> <ul style="list-style-type: none"> All objects are made of one or more materials that are chosen specifically because they have suitable properties | <p>Uses of Everyday Materials:</p> <ul style="list-style-type: none"> Ask simple questions and recognise that they can be answered in different ways. Gather and record data | <p>Uses of Everyday Materials: wood, metal, plastic, glass, brick, rock, paper, cardboard, opaque, transparent and translucent, reflective, non-</p> |

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| | <p>glass, brick, rock, paper and cardboard for particular uses.</p> <ul style="list-style-type: none"> Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching. | <p>for the task. For example, a water bottle is made of plastic because it is transparent allowing you to see the drink inside and waterproof so that it holds the water. When choosing what to make an object from, the properties needed are compared with the properties of the possible materials, identified through simple tests and classifying activities. A material can be suitable for different purposes and an object can be made of different materials.</p> <ul style="list-style-type: none"> Objects made of some materials can be changed in shape by bending, stretching, squashing and twisting. For example, clay can be shaped by squashing, stretching, rolling, pressing etc. This can be a property of the material or depend on how the material has been processed e.g. thickness. | <p>to help in answering questions.</p> | <p>reflective, flexible, rigid Shape, push/pushing, pull/puling, twist/twisting, squash/squashing, bend/bending, stretch/stretching</p> |
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| <p>Spring 2</p> | <p>Plants – Growing Plants:</p> <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. | <p>Plants – Growing Plants:</p> <ul style="list-style-type: none"> • Plants may grow from either seeds or bulbs. These then germinate and grow into seedlings which then continue to grow into mature plants. These mature plants may have flowers which then develop into seeds, berries, fruits etc. • Seeds and bulbs need to be planted outside at particular times of year and they will germinate and grow at different rates. Some plants are better suited to growing in full sun and some grow better in partial or full shade. Plants also need different amounts of water and space to grow well and stay healthy. | <p>Plants – Growing Plants:</p> <ul style="list-style-type: none"> • Observe closely, using simple equipment. | <p>Plants – Growing Plants: Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud Germinate, light, shade, sun, warm, cool, water, grow, healthy.</p> |
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| <p>Summer 1 & Summer 2</p> | <p>Living Things and Their Habitat:</p> <ul style="list-style-type: none"> • 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. | <p>Living Things and Their Habitat:</p> <ul style="list-style-type: none"> • Animals and plants live in a habitat to which they are suited, which means that animals have suitable features that help them move and find food and plants have suitable features that help them to grow well. The habitat provides the basic needs of the animals and plants – shelter, food and water. • Within a habitat there are different micro-habitats e.g. in a woodland – in the leaf litter, on the bark of trees, on the leaves. These micro-habitats have different conditions e.g. light or dark, damp or dry. These conditions affect which plants and animals live there. The plants and animals in a habitat depend on each other for food and shelter etc. The way that animals obtain their food from plants and other animals can be shown in a food chain. | <p>Living Things and Their Habitat:</p> <ul style="list-style-type: none"> • Identify, classify and group. • Gather and record data to help in answering questions. • Can recall and use KS1 appropriate vocabulary to communicate their ideas. | <p>Living Things and Their Habitat:</p> <p>Suited, suitable, basic needs, food, food chain, shelter, Prey, predator, move, feed, pond, woodland, under logs, in bushes,</p> |
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