

Spring 2	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Topic	The Natural World	Plants. Seasonal Changes.	Plants	Plants	Living things and their habitats.	Changes of Materials	Living things and their habitats.
Skills	<p>Explore the natural world around them, making observations and drawing pictures of animals and plants.</p> <p>Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.</p> <p>Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.</p>	<p>Observe changes across the 4 seasons.</p> <p>Observe and describe weather associated with the seasons and how day length varies.</p> <p>Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees.</p> <p>Identify and describe the basic structure of a variety of common flowering plants, including trees.</p> <p>Observe closely, using simple equipment.</p> <p>Perform simple tests.</p> <p>Identify and classify.</p> <p>Use their observations and</p>	<p>Observe and describe how seeds and bulbs grow into mature plants.</p> <p>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</p> <p>Ask simple questions and recognise that they can be answered in different ways.</p> <p>Observe closely, using simple equipment.</p> <p>Perform simple tests.</p> <p>Identify and classify.</p> <p>Use their observations and ideas to suggest answers to questions.</p>	<p>Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.</p> <p>Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.</p> <p>Investigate the way in which water is transported within plants.</p> <p>Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p>	<p>Recognise that living things can be grouped in a variety of ways.</p> <p>Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment.</p> <p>Recognise that environments can change and that this can sometimes pose dangers to living things.</p> <p>Ask relevant questions.</p> <p>Set up simple practical enquires and fair tests.</p> <p>Make careful observations and take measurements.</p> <p>Gather, record, classify and present data.</p>	<p>Know that some materials will dissolve in liquid to form a solution and describe how to recover a substance from a solution.</p> <p>Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating.</p> <p>Demonstrate that dissolving, mixing and changes of state are reversible changes.</p> <p>Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes associated with burning and the</p>	<p>Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro-organisms, plants, and animals.</p> <p>Give reasons for classifying plants and animals based on specific characteristics.</p> <p>Plan different types of scientific enquires to answer questions.</p> <p>Take measurements using a range of scientific equipment.</p> <p>Record data and results of increasingly complexity using scientific diagrams and labels, classification keys,</p>

		<p>ideas to suggest answers to questions. Gather and record data to help in answering questions.</p>	<p>Gather and record data to help in answering questions.</p>	<p>Ask relevant questions. Set up simple practical enquires and fair tests. Make careful observations and take measurements. Gather, record, classify and present data. Record findings. Report on findings from enquires. Use results to draw simple conclusions. Identify differences, similarities, or changes. Use straightforward scientific evidence to answer questions.</p>	<p>Record findings. Report on findings from enquires. Use results to draw simple conclusions. Identify differences, similarities, or changes. Use straightforward scientific evidence to answer questions.</p>	<p>action of acid on bicarbonate of soda. Plan different types of scientific enquires to answer questions. Take measurements using a range of scientific equipment. Record data and results of increasingly complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, ling graphs and bar graphs. Use test results to make predictions. Report and present findings from enquiries. Identify scientific evidence.</p>	<p>tables, scatter graphs, ling graphs and bar graphs. Use test results to make predictions. Report and present findings from enquiries. Identify scientific evidence.</p>
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<p>Key Content</p>	<p>Observe seasonal changes throughout the year. See the differences between a solid, liquid and gas. Observe and draw what they can see in nature.</p>	<p>Seasonal observations. Weather associated with the season. Deciduous and evergreen trees. Common wild and garden plants. Structure of common flowering plants and trees.</p>	<p>Observe a seed grow and the changes it goes through. Find out what a plant needs to survive and grow. Understand the importance of water, light and temperature for a growing plant.</p>	<p>Understand the terminology: Root, stem, trunk, leaf, flower. Describe the different functions of the parts of a plant. Investigate the needs of a plant for light and growth. Investigate how seeds are dispersed from a plant. Investigate how water travels around a plant.</p>	<p>Group living things based on their characteristics. Read a classification key. Create a classification key. Understand how environmental changes can have a big impact on the animals living in the habitat.</p>	<p>Understand what happens when a material dissolves. Understand how to bring the material back after being dissolved. Explore how to filter, sieve and evaporate a solution to separate the different materials in it.</p>	<p>Classify animals and plants based on characteristics. Understand the term: micro-organism, vertebrate and invertebrate. Group animals and plants based on characteristics.</p>
<p>Suggested Outcomes</p>	<p>Observe each of the seasons and see what they notice. Observe the difference in states of matter. Observational drawings which they can talk about.</p>	<p>Grow a plant. Nature walks observing trees and plants. Label a plant and a tree. Name plants and trees. Draw diagrams of plants and trees. Observe seasonal changes outside and associated weather.</p>	<p>Grow a seed and observe the changes it goes through over time. Test plants with different variables, such as water and light, and find out the best conditions to grow a plant in.</p>	<p>Label a plant. Label a tree. Describe the function of each parts of these. Test plants with different variables such as room to grow and nutrient rich soils. Describe what a plant needs for survival and growth. Research how a plant spreads its seeds.</p>	<p>Create classification keys for different sets of animals. Group animals based on own observations and scientific groups. Research environmental impacts on environments.</p>	<p>Dissolve materials and make observations. Change a material back after it has been dissolved and make observations. Filter, sieve and evaporate materials from a solution.</p>	<p>Classify plants and animals based on specific characteristics. Explain why I have chosen to group them that way. Research different micro-organisms, vertebrates and invertebrates.</p>

<p>Subject Specific Vocabulary</p>	<p>Explore, Observation, Similarity, Difference, Ask, Process, Change.</p>	<p>Ask, Question, Observe, Equipment, Test, Identify, Classify, Observation, Data, Compare.</p>	<p>Ask, Question, Observe, Equipment, Test, Identify, Classify, Observation, Data, Suitability, Compare.</p>	<p>Compare, Group, Ask, Enquiry, Fair, Test, Observations, Measurements, Gather, Record, Classify, Present, Findings, Conclusions, Differences, Similarities, Changes, Scientific evidence.</p>	<p>Compare, Group, Ask, Enquiry, Fair, Test, Observations, Measurements, Gather, Record, Classify, Present, Findings, Conclusions, Differences, Similarities, Changes, Scientific evidence.</p>	<p>Enquiry, Questions, Measurements, Scientific equipment, Record, Data, Diagrams, Labels, Classification keys, Tables, Scatter graphs, Ling graphs, Bar graphs, Predictions, Report, Present, Findings, Identify, Scientific evidence.</p>	<p>Enquiry, Questions, Measurements, Scientific equipment, Record, Data, Diagrams, Labels, Classification keys, Tables, Scatter graphs, Ling graphs, Bar graphs, Predictions, Report, Present, Findings, Identify,</p>
<p>Topic Specific Vocabulary</p>	<p>Seasons, Natural World, States of Matter, Animals, Plants, Environment.</p>	<p>Deciduous, Evergreen, Plant, Tree, Garden, Wild, Leaves, Flowers, Blossom, Petals, Fruit, Roots, Bulb, Seed, Trunk, Branches, Stem, Spring, Summer, Sun.</p>	<p>Seed, Bulb, Plant, Water, Temperature, Light, Grow, Healthy.</p>	<p>Flowering, Plant, Tree, Root, Stem, Trunk, Leaf, Flower, Life, Growth, Air, Light, Water, Nutrients, Soil. Pollination, Seed formation, Seed dispersal.</p>	<p>Classification key, Local environment, Wider environment, Dangers.</p>	<p>Dissolve, Liquid, Substance, Solution, Filtering, Sieving.</p>	<p>Micro-organism, Plant, Animal, Invertebrate, Vertebrate, Classification.</p>
<p>Challenge</p>	<p>Can you explain what each season looks like? What is a solid like? What is a liquid like? What is a gas like? What can you observe outside?</p>	<p>What is the difference between a deciduous and evergreen tree? How does the stem help the plant? What changes do you notice in the weather between</p>	<p>Can you explain why plants need certain conditions? Can you explain the sequence of germination? Can you explain the perfect conditions for growing plants?</p>	<p>Can you explain how the function of the roots affect the life of the plant? Can you explain how the Anther and Style help reproduction? Can you explain how flowers</p>	<p>Can you explain how biodiverse a habitat of your choice is? Can you find out how scientists classify animals? Can you explain how a warm-blooded animal</p>	<p>Can you explain how a separation method works and evaluate the process? Can you explain what factors affect a chemical change? Can you identify when a chemical</p>	<p>Can you explain how living things are classified by designing your own chart and comparing their size? Can you explain why certain species prefer a soil habitat?</p>

		this term and last?		compete for pollinators?	maintains its temperature?	change is happening and justify your answer?	Can you explain why vertebrates are classified into certain groups?
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