

| Vocabulary                                                                                                                    | Question                                                                                                                                                                                                                                                                                                                           | Trips/<br>Experiments/<br>Scientists                                                                                                                                                                                                                                                                                                                                                                                                                              | Key<br>Concepts | Common<br>Misconception<br>s                                                                                                                                                                                                                                                                                              | Working<br>Scientifically<br>Skills                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Disciplinary<br>Knowledge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Oracy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Resources                                              |
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| Magnifying<br>glass<br><br>Habitat<br><br>Grow<br><br>Observe<br><br>Investigate<br><br>Findings<br><br>Notice<br><br>Weather | <b>What does it mean to be a scientist?</b><br><br>What can I observe using my magnifying glass?<br><br>Can I gather data about the weather?<br><br>Who lives in our pond?<br><br>How many insects can I name?<br><br>Can I describe what is happening to our trees?<br><br>Can I draw a diagram of what is growing in our garden? | <b>Maria Sibylla Merian</b><br>(German artist, scientific illustrator, and naturalist)<br><br><b>Daniel Solander</b><br>-Botanist who worked with Joseph Banks on Captain Cook's voyage around the World<br><br><b>Joseph Banks</b> -Naturalist on Captain Cook's voyage around the World<br><br><b>Thomas Wyatt Turner</b><br>- Botanist who studied plant disease<br><br><b>Poppy Okotcha</b><br>-Horticulturalist interested in the connection between healthy | Forest school   | Some children may think: <ul style="list-style-type: none"> <li>plants are flowering plants grown in pots with coloured petals and leaves and a stem</li> <li>trees are not plants</li> <li>all leaves are green</li> <li>all stems are green</li> <li>a trunk is not a stem</li> <li>blossom is not a flower.</li> </ul> | Ask simple questions when prompted<br><br>Suggest ways of answering a question<br><br>Ask simple questions<br><br>Recognise that questions can be answered in different ways<br><br>Make relevant observations using simple equipment<br>Conduct simple tests, with support<br>Identify and classify with guidance<br><br>Observe closely, using simple equipment<br>Perform simple tests<br>Identify and classify<br><br>Gather and record data<br><br>Record and communicate their findings in a range of ways and begin to use simple scientific language<br>Gather and record data to help answer questions<br><br>Recognise findings<br><br>Use their observations and ideas to suggest answers to simple questions<br><br>Use their observations and ideas to suggest answers to simple questions | Explore and compare the differences between things that are living, dead, and things that have never been alive.<br><br>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.<br><br>Identify and name a variety of plants and animals in their habitats, including micro-habitats.<br><br>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 | I think..<br>I think...because.....<br>(prior knowledge)<br>I predict....will happen.<br>They are the same because.....<br>(comparing)<br><br>I think....because...and.... I don't think...because...and. ....will happen because.....<br>.....same....<br>.....similar.....different.<br><br>I think.....because...<br>I predict that....because....<br>I think they will be alike because they are both.....<br><br>I think this...because.....<br>I know this, so I think .....<br>This will happen because..... | - Magnifying glasses<br>- Clipboards<br>- Thermometers |
| Seed<br><br>Plant<br><br>Stem                                                                                                 | <b>What grows in my garden?</b><br><br>What is growing in Foxhole's Forest school?<br><br>Do I know the difference between                                                                                                                                                                                                         | <b>Maria Sibylla Merian</b><br>(German artist, scientific illustrator, and naturalist)<br><br><b>Daniel Solander</b><br>-Botanist who worked with Joseph Banks on Captain Cook's voyage around the World<br><br><b>Joseph Banks</b> -Naturalist on Captain Cook's voyage around the World                                                                                                                                                                         | Plants          | Some children may think: <ul style="list-style-type: none"> <li>plants are flowering plants grown in pots with coloured petals and leaves and a stem</li> <li>trees are not plants</li> <li>all leaves are green</li> </ul>                                                                                               | Ask simple questions when prompted<br><br>Suggest ways of answering a question<br><br>Ask simple questions<br><br>Recognise that questions can be answered in different ways                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Observe and describe how seeds and bulbs grow into mature plants<br><br>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy<br><br>Identify and name a variety of common wild and garden plants,                                                                                                                                                                                                                                                                                                                                                                       | I think..<br>I think...because.....<br>(prior knowledge)<br>I predict....will happen.<br>They are the same because.....<br>(comparing)                                                                                                                                                                                                                                                                                                                                                                              | - seeds<br>- soil<br>- plant pots                      |



















































