



Year 1: Plants



Kindness Enjoyment Achievement

<p>Key Concepts: Growing locally, there are lots of plants which all have specific names. They can be identified by looking at the key characteristics of the plant. Looking at leaf shapes, fruits and flowers can help to identify plants. Plants have common parts, but they vary between the different types of plant. Trees have roots, a trunk, branches and leaves. Flowers have roots, stems, leaves and flowers. Some trees keep their leaves all year while other trees drop their leaves during the autumn and grow them again during the spring. Can point to some trees that kept their leaves all year and some that didn't. Can point to and name the parts of a plant, recognising that they are not always the same (e.g. leaves and stems may not always be green) They do not have to know the functions of the parts of plants: this is covered in Y3. Link vegetables they eat to plants. (NB easy vegetables to grow: sugar snap peas, cabbages,</p>	<p>Types of Enquiry: <u>Sorting and classifying:</u> Identify plants by matching them to named images; name plants they see regularly. Compare two leaves/ flowers/ seeds. <u>Fair/ comparative test:</u> Which tree has the biggest leaves? Who can grow the tallest sunflower? <u>Use of secondary sources:</u> Use keys and photos to help identify plants. Research about common plants. Are snowdrops made of snow? <u>Change over time:</u> Observe leaves on trees over the year; observe flowering plants over their lifespan, focusing on how they change. Use / take photos to talk about how plants change over time- watch plants they have planted grow to adult plants. <u>Pattern seeking:</u> Can you really tell if someone likes butter by holding a buttercup under their chin?</p> <p>Working scientifically skills: <u>Questioning:</u> While exploring the world, ask questions (eg what a plant is, how things are similar/ different, how things change and why it happens)</p>	<p>Vocabulary:</p> <table border="0"> <tr><td>Leaf</td><td>branch</td></tr> <tr><td>Flower</td><td>stem</td></tr> <tr><td>Blossom</td><td>bark</td></tr> <tr><td>Petal</td><td>stalk</td></tr> <tr><td>Fruit</td><td>bud</td></tr> <tr><td>Berry</td><td>deciduous</td></tr> <tr><td>Root</td><td>evergreen</td></tr> <tr><td>Seed</td><td></td></tr> <tr><td>Trunk</td><td></td></tr> </table> <p>Trees in local area: hawthorn, beech, oak, holly, sycamore Garden and wild flowering plants in local area: daisy, buttercup, bluebell, dandelion, daffodil, pansy, foxglove</p> <p>How it fits in with the rest of the curriculum: YR: Show care and concern for living things and the environment.</p>	Leaf	branch	Flower	stem	Blossom	bark	Petal	stalk	Fruit	bud	Berry	deciduous	Root	evergreen	Seed		Trunk	
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<p>potatoes, strawberries. Especially fast growing seeds: mustard seeds, cress, radish, broad beans and chives).</p> <p>Optional: name vegetables: leeks, potatoes, celery, carrots, swede, cabbage, beetroot, radishes, broad beans...</p>	<p>Answer questions developed with the teacher.</p> <p><u>Observing:</u> make close observations of seeds, leaves, flowers. Compare 2 seeds/ leaves/ flowers. Observe how plants change over time- plant and grow flowers/ vegetables. Give children a leaf and ask to find a tree with these leaves.</p> <p><u>Identify and classify:</u> Classify and group leaves/ plants using their own criteria. Use sorting rings.</p> <p><u>Testing:</u> NA</p> <p><u>Recording:</u> photograph/ draw how plants change over time. Labelled diagrams. Use sorting rings. Observational drawings or models/ collage/ printing e.g. mothers day cards, easter cards</p> <p><u>Communicating:</u></p>	<p>Make observations of plants and explain why some things occur and talk about changes.</p> <p>Y2: Grow plants from seeds and bulbs, knowing that they thrive with water, warmth and light. Observe how seeds grow into adult plants. Distinguish between dead and alive (and dormant).</p> <p>Y3: Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p> <p>Explain the requirements of plants for life and growth, (air, light, water, nutrients from soil, room to grow) and how they vary from plant to plant.</p> <p>Know how water is transported in plants. Functions of the main parts of plants.</p> <p>Y5: sexual and asexual reproduction in plants; name flower parts and explain their role in reproduction.</p>
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