

Science



<p>Lower Key Stage 2</p> <p>Year A Autumn Term 1 and 2</p>	<p>Science Focus: Living Things – Plant structure/function and water transportation/life cycle</p>			<p>Resources</p>
<p>Science skills</p> <p>Developed through:</p> <ul style="list-style-type: none"> • Observing over time • Identifying, grouping and classifying • Pattern seeking • Making and developing ideas • Comparative and Fair Testing • Researching using secondary source 	<p>What we want children to know:</p> <ul style="list-style-type: none"> • identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves, buds and flowers, seeds • 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 • investigate the way in which water is transported within plants • explore the part that flowers play in the life cycle of flowering plants, including pollination (transport of pollen), seed formation and seed dispersal 	<p>Science skills to be developed:</p> <ul style="list-style-type: none"> • Observe what happens to plants over time when the leaves or roots are removed • Observe the effect of putting cut white carnations or celery in coloured water • Investigate what happens to plants when they are put in different conditions e.g. in darkness, in the cold, deprived of air, different types of soil, different fertilisers, varying amount of space • Spot flowers, seeds, berries and fruits outside throughout the year • Observe flowers carefully to identify the pollen • Observe flowers being visited by pollinators e.g. bees and butterflies in the summer • Observe seeds being blown from the trees e.g. sycamore seeds • Research different types of seed dispersal • Classify seeds in a range of ways including by how they are dispersed • Create a new species of flowering plant 	<p>Possible evidence:</p> <ul style="list-style-type: none"> • Can explain the function of the parts of a flowering plant • Can describe the life cycle of flowering plants, including pollination, seed formation, seed dispersal, and germination • Can give different methods of pollination and seed dispersal, including examples • Can explain observations made during investigations? • Can look at the features of seeds to decide on their method of dispersal • Can draw and label a diagram of their created flowering plant to show its parts, their role and the method of pollination and seed dispersal 	<p>Flowering plants</p> <p>Variety of seeds</p> <p>Sycamore seeds</p> <p>White carnations / celery</p> <p>Food dye</p> <p>https://www.bbc.co.uk/teach/class-clips-video/science-ks1-ks2-ivys-plant-workshop-parts-of-a-plant/zvdkpg8</p> <p>https://www.bbc.co.uk/teach/class-clips-video/science-ks1-ks2-ivys-plant-workshop-how-does-water-get-from-the-roots-to-the-leaves/zdtfjhv</p>