

|   |   |  |
|---|---|--|
| <b>Topic:</b> Plants  | <b>Year 2</b><br>Age 6-7  | <b>Title:</b> Comparing plant growth in different conditions |
| <b>Working Scientifically</b><br><b>Do:</b> Observe closely, using simple equipment   | <b>Conceptual Knowledge</b><br>Describe how plants needs water, light and a suitable temperature to grow and stay healthy |  |
| <b>Assessment Focus</b> <ul style="list-style-type: none"> <li>Can children observe closely, noticing differences and similarities?</li> <li>Can children measure and compare the height of plants?</li> </ul>  |   |  |
| <p><b>Activity</b> <i>Today we are botanists.</i></p> <p>Show children pre-grown plants, discuss what children think these plants could need to keep healthy. Raise questions they would like to investigate e.g. How long can plants last without water / light? Does it matter if the plant is inside or outside? How will less light affect the plant? Use pre-grown plants to explore conditions for growth, e.g. NORMAL CONDITIONS (on window sill, + water + light + warm), No/less/more WATER <b>or</b> No/less/more LIGHT <b>or</b> No/less/more WARMTH. Discuss what they think will happen to plants without water/sun etc. Children need to measure and observe the plants (using simple equipment – magnifiers, cameras and rulers) and they have to decide what a plant needs to grow and to stay healthy.</p> <p><b>Adapting the activity</b><br/> <b>Support:</b> Compare just one of the requirements (e.g. water/no water) and give support confirming whether their results have answered their question.<br/> <b>Extension:</b> To ensure they are measuring accurately and precisely. Children to design a different experiment which would answer the same question?<br/> <b>Other ideas:</b> Investigate different plants.</p> <p><b>Key Questions</b></p> <ul style="list-style-type: none"> <li>What do you notice about the plants? Can you see any differences?</li> <li>Why might the plants look different?</li> <li>Have our results answered our question? Why?</li> <li>What does a plant need to grow?</li> </ul> |   |  |
| <p><b>Assessment Indicators</b></p> <p><b>Not yet met:</b> Children to physically compare which plant is the tallest and shortest (between normal conditions and one other condition) and to think why this is.</p> <p><b>Meeting:</b> Observe and record the appearance of the plants (drawing or annotated photo) and compare the heights of the plants. Use findings to suggest how healthy plants are and suggest reasons.</p> <p><b>Exceeding:</b> Make a range of comparisons between the plants in different conditions, e.g. colour, droopiness.</p>  |   |  |