

# The Secret World of Plants : Science : Year 2

	Learning Objective	Overview	Assessment Questions	Resources
<b>Lesson 1</b>	To find out what plants need to grow.	Children will consider the things a plant needs to grow and mature, how plants in the wild get them, and how and why plant growers grow plants in nurseries and on farms. They may then either conduct a simple comparative test to determine how light levels affect seed germination, or discuss a variety of statements about plant growth.	<ul style="list-style-type: none"> <li>Can children identify the things most plants need to germinate and mature?</li> <li>Can children suggest reasons why we cultivate plants?</li> <li>Can children devise a simple comparative test to determine how light affects germination?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 1A/1B/1C</li> <li>Planting Guide 1</li> <li>Teacher's Notes</li> <li>Gardening tools and materials (see Teacher's Notes)</li> <li>Discussion Cards 1 (FSD...? activity only)</li> </ul>
<b>Lesson 2</b>	To find out what plants need to stay healthy.	Children will learn in greater detail how soil, water, light and air help young plants grow and mature. They will identify the features of young seedlings, then either study seedlings they have grown themselves or identify suitable locations around school for growing different types of plant.	<ul style="list-style-type: none"> <li>Can children explain why many seeds and bulbs are able to germinate without light?</li> <li>Can children begin to explain, in simple terms, how plants make their own food?</li> <li>Can children select appropriate locations where plants will grow well, giving reasons?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Teacher's Notes</li> <li>Worksheets 2A/2B/2C</li> <li>True/False Cards 2</li> <li>Gardening tools and materials</li> <li><b>FSD...? activity only:</b> <ul style="list-style-type: none"> <li>Seed Packet cards 2A–2J</li> <li>Worksheet 2D</li> <li>Cameras (optional)</li> </ul> </li> </ul>
<b>Lesson 3</b>	To explore and compare plants that are living, dying or dead, and discover how we can help dying plants live longer, or reproduce.	Children will identify observable characteristics of living animals, going on to learn how they are present for all animals, even if it is difficult to observe them. They will then learn how plants have similar life processes, and why plants may die. After this children may either plant scraps and cuttings which re-grow, or identify dead and dying plants.	<ul style="list-style-type: none"> <li>Can children identify some observable life processes of animals and plants?</li> <li>Can children consider when, and why, plants start to die once harvested?</li> <li>Can children identify ways in which harvested plants can be kept alive, or helped to reproduce, by humans?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Worksheets 3A/3B/3C</li> <li>Growing Scraps 3A/3B</li> <li>Teacher's Notes</li> <li>Gardening tools and materials (see Teacher's Notes)</li> <li>Worksheet 3D (FSD...? activity only)</li> </ul>
<b>Lesson 4</b>	To observe and describe how plants grow.	Children will discover how plants grow and 'move' as they require more space, light, water and nutrients. They will also consider how and why plant growers give plants the things they need to grow and reach maturity. They will then engage with a variety of activities relating to the continuing growth of young plants, and take care of any plants they have been growing themselves.	<ul style="list-style-type: none"> <li>Can children describe how the roots of plants grow, and why?</li> <li>Can children describe some ways in which plants grow above ground, and why?</li> <li>Can children suggest reasons why plant growth may be negatively affected?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Activity Posters 4A–4F</li> <li>Blank writing/drawing frames</li> <li>Teacher's Notes</li> <li>Gardening tools and materials (see Teacher's Notes)</li> <li>Plant Growth Cards 4 (FSD...? activity only)</li> </ul>
<b>Lesson 5</b>	To begin to describe how plants mature and reproduce.	Children will learn about what happens when plants reach maturity and, hopefully, produce fruits containing seeds. They will also consider how they, and commercial plant growers, harvest mature plants, including how plants grown at home may be harvested in a way that allows them to re-grow and produce more edible leaves or fruits.	<ul style="list-style-type: none"> <li>Can children identify common features of mature plants?</li> <li>Can children identify some ways in which mature plants can disperse their seeds?</li> <li>Can children identify ways in which some mature crop plants may be harvested?</li> </ul>	<ul style="list-style-type: none"> <li>Slides</li> <li>Mature Plants Cards 5</li> <li>Challenge Cards 5A/5B/5C</li> <li>Teacher's Notes</li> <li>Gardening tools and materials (see Teacher's Notes)</li> <li>Plant Hunt 5 activity sheet (FSD...? activity only)</li> </ul>