

Long Term Curriculum Plan

Subject – Horticulture

Lessons per week:	1	5 to 8 lessons over a half term depending on the length of the term	Three year plan
During preparation for adulthood, pupils who have shown interest in gardening/horticulture will be part of a structured lesson. The pupils will learn the theory and skills through practical based tasks. Our aim is to engage and enthuse pupils through projects and differentiated planning for each group of pupils.			

Yr1	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Green	<p>Harvest / Plant</p> <p>Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Defining what a weed looks like and what a crop looks like. Culling the sown seeds and nurturing the strong plants. Transplanting the plants from tray to ground both inside the polytunnel and outside. Select plants to harvest and maintaining the rest. Sowing seeds appropriate for the season. Placing protection for organic outdoor gardening</p>	<p>Mulch/ Close down</p> <p>Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Mulching is important for many reasons: to Keep soil in place in heavy rain, keep nutrients in your soil, balance soil temperature, protect soil microbes, protect garden worms, stop plant root from freezing, spread water more evenly through the soil, prevent winter weed growth. Closing the allotment for the winter the pupils will</p>	<p>Tilling/Pruning</p> <p>Skills:</p> <p>Pruning, burning, forking, digging, raking, deadheading, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Introduction to using different tools for their respective jobs: shears, saw, rake, spade, fork, wheelbarrow, etc. Pruning trees is necessary for food production and plant health. Tilling helps breakdown nutrients within the ground ready for plant consumption and to add more nutrients (compost). Preparation of the ground is important for the success of the plant.</p>	<p>Plant/ Tilling</p> <p>Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Introduction to using different tools for their respective jobs: trowel, seed tray, watering can, etc. State the purpose of the polytunnel and why certain plants need to be kept inside. Sowing seeds appropriate for the season. Sowing seeds in trays and straight to ground indoors and out. Placing protection for organic outdoor gardening including,</p>	<p>Planting</p> <p>Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, hill up, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Sowing seeds appropriate for the season. Sowing seeds in trays and straight to ground indoors and out. Placing protection for organic outdoor gardening including, borders, netting, eggshell, etc. Maintaining seedlings and other plants within the allotment.</p> <p>Keywords:</p>	<p>Planting and harvesting</p> <p>Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Developing and understanding of what a weed looks like and what a crop looks like. Culling the sown seeds and nurturing the strong plants. Transplanting the plants from tray to ground both inside the polytunnel and outside. Select plants to harvest and maintaining the rest. Sowing seeds appropriate for the season. Placing protection for organic outdoor gardening</p>

<p>including, borders, netting, eggshell, etc.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, amending soil, ground cover, growing season.</p> <p>Plants:</p> <p>Spinach, broccoli, radish, lettuce, peas, rocket, leeks, tomato, apples, pumpkin</p>	<p>learn the importance of preparation for success.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, frost, annual, evergreen, biennials, dormancy.</p> <p>Plants:</p> <p>Spinach, broccoli, radish, lettuce, peas, rocket, leeks, tomato, flowers.</p>	<p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, frost, dead heading.</p> <p>Plants:</p> <p>Fruit trees and bushes.</p>	<p>borders, netting, eggshell, etc.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, frost, bolting.</p> <p>Plants:</p> <p>Radish, peas, Garlic, flowers.</p>	<p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, hill up, tender.</p> <p>Plants:</p> <p>Beats, herbs, radish, lettuce, peas, onions potatoes, kale, tomato, pumpkin, flowers.</p>	<p>including, borders, netting, eggshell, etc.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, crop cover.</p> <p>Plants:</p> <p>Beats, herbs, radish, lettuce, peas, onions potatoes, kale, tomato, peppers, cucumbers, leeks, pumpkin, flowers.</p>
--	--	--	--	--	--

Horticulture is an inspiring, rigorous, and rewarding subject. By learning the needs and wants of different plant life, pupils use creativity and knowledge to design a garden layout with a variety of crops, with the intention of it functioning to its highest potential. Horticulture can emphasise the value of being outside and taking care of the environment. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, and engineering. Pupils learn how to take risks, becoming resourceful, innovative, enterprising, and capable citizens. Through the consistent evaluation of harvest and plant health, they develop a critical understanding of the efforts required to maintain food supply in the wider world. Outdoor education makes an essential contribution to the creativity, culture, and well-being of the nation.

By the end of year 1, a pupil who regularly took part in horticulture will have:

- **Sown various seeds indoors and outside**
- **An understanding of at least three different organic gardening techniques**
- **Transplanted plants from pots to prepared ground**
- **Used a variety of tools appropriate for their design**
- **Knowledge of three common pests affecting crops**
- **Knowledge of at least three vegetable, fruit, and herb crops**
- **Harvested a variety of crops**

Yr2	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Green	<p>Harvest / Plant Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, side dressing, safe use of gardening tools.</p> <p>Context/Knowledge:</p> <p>Demonstrate an understanding of the difference between weeds and crops. Culling the sown seeds and nurturing the strong plants. Transplanting the plants from tray to ground both inside the polytunnel and outside. Select plants to harvest and maintaining the rest. Sowing seeds appropriate for the season. Placing protection for organic outdoor gardening including, borders, netting, eggshell, etc.</p> <p>Keywords:</p>	<p>Mulch/ Close down Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, safe use of gardening tools.</p> <p>Context/Knowledge:</p> <p>Mulching is important for many reasons: to Keep soil in place in heavy rain, keep nutrients in your soil, balance soil temperature, protect soil microbes, protect garden worms, stop plant root from freezing, spread water more evenly through the soil, prevent winter weed growth.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, frost, hardy.</p>	<p>Tilling/Pruning Skills:</p> <p>Pruning, burning, forking, digging, raking, safe use of gardening tools.</p> <p>Context/Knowledge:</p> <p>Introduction to using different tools for their respective jobs: shears, saw, rake, spade, fork, wheelbarrow, etc. Pruning trees is necessary for food production and plant health. Tilling helps breakdown nutrients within the ground ready for plant consumption and to add more nutrients (compost). Preparation of the ground is important for the success of the plant.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, frost, humus.</p> <p>Plants:</p>	<p>Plant/ Tilling Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, safe use of gardening tools.</p> <p>Context/Knowledge:</p> <p>Expanding on the knowledge of using different tools for their respective jobs in the garden. Expanding on the knowledge of using the polytunnel. Pupils will follow instructions with minimal assistance and sow seeds appropriate for the season. Sowing seeds in trays and straight to ground indoors and out. Constructing protection for organic outdoor gardening including, fencing, pest-repelling plants, netting, sacrificial plants, etc.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel,</p>	<p>Plant Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, hardening off, safe use of gardening tools.</p> <p>Context/Knowledge:</p> <p>Examine the allotment and solve any issues that will arise (overheating, underwatering, airflow, nutrients). Sowing seeds in trays and straight to ground indoors and out. Experimenting with protection for organic outdoor gardening including, borders, netting, eggshell, etc. Maintaining seedlings and other plants within the allotment. Pupils will start the process of hardening off their indoor plants ready for them to be planted outside.</p>	<p>Plant/ harvest Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, safe use of gardening tools.</p> <p>Context/Knowledge:</p> <p>Differentiate between weeds and crop. Culling the sown seeds and nurturing the strong plants. Transplanting the plants from tray to ground both inside the polytunnel and outside. Select plants to harvest and maintaining the rest. Sowing seeds appropriate for the season. Placing protection for organic outdoor gardening including, borders, netting, eggshell, etc. Preparing the allotment for the 6 weeks holidays.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting,</p>

<p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, perennials, frost tender, frost hardy, side dressing.</p> <p>Plants:</p> <p>Spinach, broccoli, radish, lettuce, peas, rocket, leeks, tomato, apples, pumpkin</p>	<p>Plants:</p> <p>Spinach, broccoli, radish, lettuce, peas, rocket, leeks, tomato,</p>	<p>Fruit trees and bushes.</p>	<p>allotment, last frost, direct sow, cold frame, chlorosis, silt, self-pollenating.</p> <p>Plants:</p> <p>Radish, peas, Garlic</p>	<p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, full sun, hardening off.</p> <p>Plants:</p> <p>Beats, herbs, radish, lettuce, peas, onions potatoes, kale, tomato, pumpkin</p>	<p>watering, Polytunnel, allotment, Harvest,</p> <p>Plants:</p> <p>Beats, herbs, radish, lettuce, peas, onions potatoes, kale, tomato, peppers, cucumbers, leeks, pumpkin</p>
--	---	--------------------------------	--	--	--

By the end of year 2, a pupil who regularly took part in gardening will be able to:

- **Demonstrate different skills required to successfully grow vegetables**
- **Examine the plant health**
- **Differentiate between weeds and crops**
- **Compare different composting techniques**
- **Organize the layout of crops paying attention to spacing**
- **Relate plant health to the plants requirements**

Yr3	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Green	<p>Harvest / Plant Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, planning, critiquing, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Pupils will be given the opportunity to design their individual garden plan. Pupils will critique other allotment spacing and include their findings in their own design. Pupils will take responsibility for their own design. They will use methods such as companion planting, cold frames, stratification and vernalization.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting,</p>	<p>Mulch/ Close down Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, shopping, planning, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Pupils will travel to different vendors and purchase the seeds and materials they need to achieve their allotment design. Pupils will, using what they have learnt, close down their own space in preparation for winter.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, frost, stratification, tilth, vernalization.</p>	<p>Tilling/Pruning Skills:</p> <p>Pruning, burning, forking, digging, raking, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Pupils will follow their plans which will include sowing seeds indoors and marking the area they have been assigned. Prepping the ground ready for last frost. Care for plants that they may have planted for winter. Using stratification or vernalization for plants that didn't winter well.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, frost.</p> <p>Plants:</p>	<p>Plant/ Tilling Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Working around the last frost, pupils will follow their plans this will include: sowing seeds in indoors and out, transplanting from trays and sowing in trays and potting up. The pupils will have to choose the appropriate protection for their organic outdoor crops including, fencing, pest-repelling plants, netting, sacrificial plants, etc.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel,</p>	<p>Plant Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>At this point the pupils should be transplanting their last crops. Pupils will use their own judgement to assess the plants health, this could include: chlorosis, soil tilth, Etiolation, etc. Some pupils will be able to harvest from their crop at this time and compare the quality of their harvest.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest, mulch, ornamental.</p>	<p>Plant/ harvest Skills:</p> <p>Tilling, sowing, digging, forking, raking top dressing, planting, watering, health and safety using gardening tools.</p> <p>Context/Knowledge:</p> <p>Pupils will be harvesting their crops and evaluating their produce and be able to develop an action plan for what they would do different next time. Pupils will pack down their area and plant crop cover for the next years pupils to be able to use the space.</p> <p>Keywords:</p> <p>Tilling, sowing, digging, forking, raking, top dressing, planting, watering, Polytunnel, allotment, Harvest.</p> <p>Plants:</p>

<p>watering, Polytunnel, allotment, Harvest, mulch, acidity, aerobe, alkalinity, ph, anaerobia.</p> <p>Plants:</p> <p>Spinach, broccoli, radish, lettuce, peas, rocket, leeks, tomato, apples, pumpkin</p>	<p>Plants:</p> <p>Spinach, broccoli, radish, lettuce, peas, rocket, leeks, tomato,</p>	<p>Fruit trees and bushes.</p>	<p>allotment, frost, dioecious, etiolation, companion planting.</p> <p>Plants:</p> <p>Radish, peas, Garlic</p>	<p>Plants:</p> <p>Beats, herbs, radish, lettuce, peas, onions potatoes, kale, tomato, pumpkin</p>	<p>Beats, herbs, radish, lettuce, peas, onions potatoes, kale, tomato, peppers, cucumbers, leeks, pumpkin</p>
---	---	--------------------------------	---	--	---

By the end of year 3, a pupil who regularly took part in gardening will be able to:

- **Design a functional allotment, using knowledge of growing seasons.**
- **Defend their plans with reasoned argument.**
- **Follow a plan including watering, amending soil, companion planting and all other growing techniques.**
- **Understand the value of pre-planning and attention to detail.**
- **Create a shopping list and purchase the desired product from a vender.**
- **Confidently apply a range of techniques including stratification and vernalization.**
- **Evaluate plant health and apply the correct treatment.**

Horticulture Vision Statement

Here at Talbot House we aim to teach horticulture in a creative and relevant way. We aim to ensure that all the pupils are engaged, inspired and challenged throughout each of the topics planned in line with the plant's lifecycles. The lessons have been tailored to individual groups within school.

Horticulture helps develop our pupils skills, concepts and knowledge necessary for them to build resilience. During the Autumn 2 and spring 1 pupils will spend a large amount of time doing very physical tasks that they will not benefit from until Spring 2 and summer terms. The pupils will plant a wide variety of plant life with different harvest windows. Pupils will also develop resilience through the frustrations and inconsistencies that will arise while growing their crops. They will be given the freedom to experiment and devise solutions to problems independently and with guidance.

In Horticulture pupils should feel comfortable enough to communicate what they see, feel and think in a nurturing environment. They should follow the process of research, design, develop, nurture, harvest and evaluate, enabling them to continue to develop and secure their skill base and become proficient in tools, irrigation, life cycles, nutrient and light requirements of different flora.