

The intent of the Horticulture curriculum at NRHS

Key Stage 1

To explore where our food comes from and how it is produced.

Key Stage 2

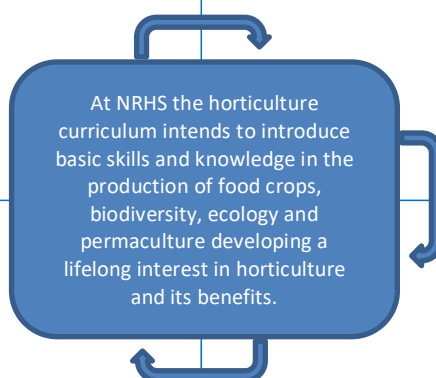
To broaden horticultural knowledge and develop basic skills for use in the production of food crops and the relationship between living things and their environments.

Key Stage 4

To build upon and deepen horticultural knowledge with an understanding of ecosystems, biodiversity and permaculture developed in earlier key stages in the subject.

Key Stage 3

To develop a deeper understanding in a range of horticultural skills, land management and food production with an introduction to ecosystems, biodiversity and permaculture.



Curriculum Information - Horticulture

Key Stage 1	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	<p>Harvest (autumn)</p> <p>How to recognise when something is ready to harvest.</p>	<ul style="list-style-type: none"> • How to harvest a selection of crops • Where does food come from and what meals can we use our harvest in? • Flower spotting • Harvesting seeds • Wildlife watch • Looking for fungi 	<ul style="list-style-type: none"> • Links to art, PSHE, English & maths. • Links to Science Year 1 topics: Seasonal Changes Plants Animals Everyday Materials Scientists and Inventors • Links to Science Year 2 topics: Plants Everyday Materials Living things and their habitats Animals Scientists and Inventors
Oct-Dec (Term 1.2)	<p>Autumn (all about the seasons)</p> <p>How to recognise the changing seasons and wildlife</p>	<ul style="list-style-type: none"> • Planting spring bulbs in pots • Making a wildlife habitat (stack leaves, wood etc. for bugs) • All about leaves and autumn leaf colour • Autumn weather watch • Making leaf mould • Decorating the allotment Christmas tree (all about trees) 	
Jan-Feb (Term 2.1)	<p>Wildlife (winter)</p> <p>How and why we encourage wildlife</p>	<ul style="list-style-type: none"> • Feeding wild birds • Bird watch • All about the allotment chickens (food and care) • All about hibernation • Winter weather watch • Wildlife hunt 	
Feb-April (Term 2.2)	<p>Seeds (spring)</p> <p>How to sow seeds and prepare and plant seed potatoes</p>	<ul style="list-style-type: none"> • Sowing a variety of seeds • Planting potatoes in bags • Spring flower spotting • Pond life • Harvesting strawberries • Easter Egg Hunt (all about eggs/lifecycles) 	

April-May (Term 3.1)	Planting (spring) Preparing for planting and planting out	<ul style="list-style-type: none"> • Worms and soil • Getting ready for planting (digging and raking) • Planting out salad crops • Bug spotting (friend or foe) • Spring weather watch 	
May-July (Term 3.2)	Plant care and harvesting (summer) How to care for plants after planting and harvesting crops	<ul style="list-style-type: none"> • Weeds/Wild flowers/Flower spotting • Weeding • Harvesting Potatoes • Watering and dead heading • Harvesting salad crops • Butterfly spotting • End of term harvest/Summer weather watch 	

Curriculum Information - Horticulture

Key Stage 2	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	<p>Allotment and Tool Safety</p> <p>Autumn harvest and seasonal jobs on the allotment</p>	<ul style="list-style-type: none"> • Allotment Rules/Tools and equipment (what they are and how to use them safely) • How to harvest a variety of crops • Clearing a vegetable bed for a winter crop • Collecting seed to sow or save • Planting Spring bulbs in pots and the ground • Planting garlic and onion sets in modules 	<ul style="list-style-type: none"> • Links to art, PSHE, English & maths.
Oct-Dec (Term 1.2)	<p style="text-align: center;">Autumn</p> <p>How to recognise the changing seasons and jobs that need to be done on the allotment</p>	<ul style="list-style-type: none"> • Planting out a winter vegetable crop • Encouraging wildlife and hibernation habitats • Fungi and why it is important (fungi identification and safety) • All about leaves (leaf hunt and why leaves change colour) • Raking leaves/making leaf mould • All about trees and decorating the allotment Christmas tree (evergreens and deciduous) 	<ul style="list-style-type: none"> • Links to Science Year 3 topics: Light Rocks Animals The environment Scientists and Inventors
Jan-Feb (Term 2.1)	<p style="text-align: center;">Wildlife, weather and soil</p> <p>How and why we encourage wildlife and the importance of a healthy soil</p>	<ul style="list-style-type: none"> • Hunting for wildlife • Feeding birds and why we attract them • Bird watch (RSPB) • Weather (how it can affect the growing season) and weather station • Soil and compost (what's the difference?) • All about potatoes and 'chitting' seed potatoes for GYO Potatoes Project (competition) 	<ul style="list-style-type: none"> • Links to Science Year 4 topics: Living things and their habitats States of Matter Sound Plants Animals Scientists and Inventors
Feb-April (Term 2.2)	<p style="text-align: center;">Seed sowing</p> <p style="text-align: center;">Life cycles (Birds, frogs and newts)</p>	<ul style="list-style-type: none"> • Sowing a variety of seeds (vegetables and flowers) • Planting prepared potatoes in bags for GYO Potatoes project • Pond life (pond watch/dipping) • Worms and why they are important to a healthy soil (worm observation station) and 'Worm Charming' • Sowing sunflowers in pots 	<ul style="list-style-type: none"> • Links to Science Year 5 topics: Living things and their habitats Earth and Space Animals and Investors

		<ul style="list-style-type: none"> Easter egg hunt/ Chickens, eggs and Spring flowers 	<ul style="list-style-type: none"> Links to Science Year 6 topics: Animals Light Evolution and inheritance Living things and their habitats Scientists and Inventors
April-May (Term 3.1)	<p>Seasonal jobs on the allotment</p> <p>Preparing for planting and planting out crops</p>	<ul style="list-style-type: none"> Potting on plants (previously sown) Harvesting strawberries Preparing a plot for planting (digging and raking) Planting out salad crops (grown in poly tunnel) Weed spotting and weeding 	
May-July (Term 3.2)	<p>Plant care and harvesting (summer)</p> <p>Insects and pollination (Bees, butterflies and flowers)</p>	<ul style="list-style-type: none"> Direct sowing vegetable and salad crops (follow on crops) Watering plants, making a watering device and plant care Harvesting GYO Potatoes (weighing and entering competition) Biology of a flower (life cycle of a plant) Insects and pest control (organic methods) Bees and Butterflies as pollinators Summer harvest 	

Curriculum Information - Horticulture

Key Stage 3	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	<p>Planning Jobs for Sept/Oct</p> <p>Allotment safety and rules</p> <p>Working through a list of seasonal jobs</p>	<ul style="list-style-type: none"> • Allotment rules and tool safety • Site survey and planning ahead for a winter crop • Clearing a vegetable bed for a winter crop (harvesting remaining crops and composting) • Soil testing and soils (basic) • Crop rotation (basic rules 3/4 year rotation) • Choosing suitable winter crops (Draw a plot plan) 	<ul style="list-style-type: none"> • Links to Maths Years 7,8&9 topics: Numbers & Measures. • Links to Science Years 7,8&9 topics: Health and lifestyle (food groups). Ecosystems. Plant processes. Atmosphere (weather). Rocks (soil types). Decay (Composts) • Links to English Years 7,8&9 topics: Writing skills. Poetry (Sunflowers). • Links to PHSE Years 7,8&9 topics: Health & Safety. • Links to Food Technology Years 7,8&9 topics: Food preservation. The impact of food in our environment. Cookery lessons using produce from the school allotment. Healthy eating.
Oct-Dec (Term 1.2)	<p>Planning jobs for Oct/Nov/Dec</p> <p>Working through a list of seasonal jobs</p> <p>Hardwood Cuttings, Winter pruning</p>	<ul style="list-style-type: none"> • Prepare a vegetable plot (dig over, apply organic matter) • Plant out a winter crop (cabbage, kale etc.) • Making leaf mould (what it is used for) • Hardwood cuttings (how to propagate soft fruit) • Pruning soft fruit • An introduction to Permaculture / Composts and manures (organic) 	
Jan-Feb (Term 2.1)	<p>Planning jobs for Jan/Feb</p> <p>Working through a list of seasonal jobs</p> <p>Tools/Propagation/Composts and manures</p>	<ul style="list-style-type: none"> • Covering the empty veg plots (why we do it and suitable materials) • Garden tools: identification and use, cleaning, tool safety and safety equipment • Sharpening and oiling garden tools (with suitable tools and equipment) • R.S.P.B Bird watch (encouraging wildlife and the benefits) • Sowing early seeds (Tomato, Chilli, Aubergines etc.) • All about potatoes. Preparing for a potato crop (in the field or bags) 	
Feb-April (Term 2.2)	<p>Planning jobs for Feb/March/April</p> <p>Working through a list of seasonal jobs</p> <p>Propagation/Bed preparation/Fertilizers</p>	<ul style="list-style-type: none"> • Strawberry bed care (weeding, feeding and mulching) • Preparing a vegetable plot for a crop (digging over for potato planting) • Applying fertilizers (measuring, weighing and applying the correct amount of organic fertilizer) to a vegetable plot • Pricking out and potting on (seedlings and plants) • Herb care, trimming and dividing • Allotment chickens (livestock care) Pond watch/dipping (ecosystems and life cycles) 	
April-May (Term 3.1)	<p>Planning jobs for April/May</p> <p>Working through a list of seasonal jobs</p> <p>Planting/ Plant care</p>	<ul style="list-style-type: none"> • Watering and feeding plants (using a variety of methods and liquid fertilizer) • Planting out pot grown crops e.g. courgettes and pumpkins • Weeding, weed identification (weed or wildflower) and mulching • Catch crops and direct sowing seed in vegetable plots 	

	Propagation	<ul style="list-style-type: none"> • Softwood cuttings (propagation) 	<ul style="list-style-type: none"> • Links to PE Years 7,8&9: Outdoor activity for fitness and core strength (digging, raking etc.). • Links to Art Years 7,8&9: Colours, shapes, natural form & artistic interpretation (using nature for inspiration).
May-July (Term 3.2)	Planning jobs for May/June/July Working through a list of seasonal jobs Pest control/Pollinators Biodiversity/Harvesting	<ul style="list-style-type: none"> • Pest and disease control (organic) • The importance of pollinators and how to identify them • Potting up strawberry runners (propagation) • Semi- ripe cuttings and seed collecting • Sowing winter crops (parsley etc.) and successional sowing • Lifting and preparing potatoes/onions for storage • Harvesting summer crops 	

Curriculum Information – Horticulture

Key Stage 4	Topic/Unit Objectives	Knowledge to be taught	Big picture cross curriculum links
Sept-Oct (Term 1.1)	Planning Jobs for Sep/Oct Allotment Safety Foundation in Horticulture	<ul style="list-style-type: none"> Allotment Safety/Tools and Equipment (including battery, electric or petrol) Site Survey (how to draw a plan of the allotment) Preparing beds for winter crops and harvesting remaining crops (pupils to choose correct tools, equipment and method unassisted) Soils and soil testing (how to adjust a soils pH to suit a particular crop e.g. Brassicas) Plant classification (who invented it and why is it important) Crop rotation (for land management) 4 and 5 year rotations 	
Oct-Dec (Term 1.2)	Planning Jobs for Oct/Nov/Dec	<ul style="list-style-type: none"> Choosing suitable winter crops (Plan a winter crop bed) Planting out a winter crop (pupils to take into account the crop rotation for the previous year) Composting (including wormery) Propagation – Hardwood cuttings to increase stock Wildlife - its importance and how to encourage it (making wildlife habitats) Maintenance – caring for wooden structures (using wood preservatives) 	<ul style="list-style-type: none"> Links to Maths Years 10&11 topics: Measurements. Scale diagrams. Links to English Years 10&11 topics: Reading and writing skills.
Jan-Feb (Term 2.1)	Planning Jobs for Jan/Feb	<ul style="list-style-type: none"> Winter pruning (fruit trees and soft fruit) Permaculture and ecosystems Preparing for a bird watch RSPB Big Schools Bird Watch Propagation – Tubers (potatoes) Sets (onions) and Bulbs (garlic) Plan a vegetable bed for Summer/Autumn (site, soil, fertilizers and crops) <p style="text-align: center;">An introduction to the 'Asdan Short Gardening Course' (14yrs +)</p>	<ul style="list-style-type: none"> Links to PHSE Years 10&11 topics: Behaviour (team work) Health and safety Careers (in Horticulture) Links to Science Years 10&11 topics: Plants (photosynthesis and plant

<p>Feb-April (Term 2.2)</p>	<p>Planning Jobs for Feb/March/April</p> <p>Asdan</p>	<p>Choosing candidates for 'Asdan' and modules (14yrs +)</p> <p><u>Non 'Asdan' pupils</u></p> <ul style="list-style-type: none"> • Growing methods (no dig, raised beds, under cover etc.) • Propagation – from seed (including stratification methods) • Fertilizers – organic (including making a liquid fertilizer) • Propagation – pricking out and potting on • Plants and aftercare (pests, disease, hardening off, frost protection etc.) • Caring for livestock (allotment chickens)/Easter Egg Hunt 	<p>biology). Food chains Decay (composting.) Biodiversity.</p> <ul style="list-style-type: none"> • Links to PE Years 10&11: Outdoor fitness through work (digging, raking, weeding, planting etc.).
<p>April-May (Term 3.1)</p>	<p>Planning Jobs for April/May</p> <p>Asdan</p>	<p>'Asdan' continued (selected pupils working on chosen modules for the rest of the term)</p> <p><u>Non 'Asdan' Pupils</u></p> <ul style="list-style-type: none"> • Hedges for wildlife and how to care for them • Weed identification and control (organic / chemical) • Planting out summer and autumn crops/Intercropping (catch crops) • Cutting grass (lawn care) • Irrigation (harvesting water and making a watering device) 	<ul style="list-style-type: none"> • Links to Food Technology Years 10&11 topics: Using produce sown and grown on the school allotment in cookery lessons (creating meals from seasonal produce). Healthy eating.
<p>May-July (Term 3.2)</p>	<p>Planning Jobs for May/June/July</p> <p>Asdan</p>	<p>'Asdan' continued (selected pupils working on chosen modules for the rest of the term)</p> <p><u>Non 'Asdan' Pupils</u></p> <ul style="list-style-type: none"> • Bees and other pollinators (identification and importance)/ Wild flower beds and borders to increase biodiversity • Plant care – Watering, feeding and weeding (organic / chemical) • Harvesting (field grown potatoes/onions) • Propagation –Semi ripe and softwood cuttings • Encouraging wild life, ecosystems (bug hotels etc.) • Propagation – Sowing winter crops (planning ahead) • Seed bank (permaculture) collecting and storing seed • Harvesting Summer crops and how to store them 	<ul style="list-style-type: none"> • Links to Art Years 10&11: Nature and wildlife photography for art.