#### KS4 Grow It

RRS Articles: This unit of work is linked Article 6 of the UN Convention on the Rights of the Child.

"I should be supported to live and grow."

RRS Articles: This unit of work is linked Article 29 of the UN Convention on the Rights of the Child.

"I have the right to an education which develops my personality, respect for others' rights and the environment."

# Subject curriculum intent:

The purpose of Grow It is to develop the skills, confidence, independence and creativity through practical lessons. The pupils will learn about recycling and upcycling to help support insects and wildlife, how to sow seeds and grow plants and how to maintain a garden area. Pupils will be able to see the process seeds go through to grow a variety of plants.

Lessons are structured so they are practical to equip students with the skills they can use in a garden environment and they promote participation and teamwork encouraging students to work co-operatively.

End of KS3 intent/outcome		End of KS4 intent/outcome End of KS5 intent/outcome		
In KS3 pupils learn about their local environment. Plants e.g. garden or park, herbs. Explore environment through cross-curricular. Basic gardening skills. Seed sowing, watering, weeding. Seasons - cross-curricular maths. Composting.		Broaden knowledge of their environment both locally and globally. Learn more around environment issues and sustainability. Expand basic skills. On site allotment management.	Have a good knowledge of sustainability and gardening skills. Use and apply skills by managing offsite ks5 allotment.	
Intent for this topic:	Reduce, Reuse, Recycle -investigate communal waste -contribute to communal litte -sort waste & identify reusale -design and make water syste - upcycling & design tasks - explore uses of recycled plate - sow seeds for year round grace - sow seeds for year round grace - use technology to share inf -sow successional seeds and a -learn what a plant needs to			

	Plant care -understand the needs of plant varieties and can implement care needs, for example build supporting structures, successful positioning of planting, disease prevention build 'plant profiles' to provide care information for future classes/ share with other Key stages maintain areas and manage growth through regular attendance & completion of tasks related to consistent plant care, such as regular weed identification and managementsow seeds
Core vocabulary needed for this subject/topic:	Recycle, re-use, reduce, waste, Earth, help, sow, litter, upcycle, waste, material, design, plan, make, evaluate, plastic, sowing, seeds,
Vocabulary pupils will have accessed in other topics or subject areas:	Garden, grow, plants, fork, trowel, spade, plant pot, watering can,
Key vocabulary taught within this topic:	Environment, positive, negative, world, global warming, pollution, recycling, energy, waste, survey, tally chart, eco-friendly, report, results, conclusion.

Prior knowledge: what pupils may already have studied

Key stage	Subject	Topic title	Term/year taught	Content/What might pupils already know?
K53	DT Grow it	Soil, seeds an life	(2022-2023)	Soil – ground based
		cycles and food.		-harvesting
				-composting
				-Mulches
				-Soil tests
				-Preparing beds for next season
				Seeds & Life Cycles
				-Life cycle
				-environment
				-what a plant needs
				-time for growing
				-calendar
				-conditions
				Food
				- recognising plants as food
				-Safe and unsafe plants to eat

-Early harvest
-Links to cooking
-Identifying plants e.g. weed from plant, different plants, eating
-Watering & care.

Links to other subjects: PHSCE, Science, Religion, English, Cook it It, PE.

English- reading, key words and SPAG.

Maths- numeracy, measurements.

Cook it- how to cook food grown,

Grow It- growing and harvesting food.

Science- food and nutrition,

Religion - dietary requirements for religious beliefs.

Geography and history- countries where food is harvested, history of plants, vegetables, gardening, gardening tools.

PE- active healthy lifestyles.

	<u>OU P5-6</u>	<u>OU P7-8</u>	OU step 1	<u>OU Steps 2-3</u>
Theme-Safety				
Subject specific	Knows where hands	Knows where hands	Understand why we need to	Understand why we need to wash our
knowledge	need to be washed.	are washed and what is needed to wash	wash our hands when gardening and can identify some reasons	hands and can give relevant examples of why we wash hands and the risks
	Knows of some dangers in the	hands i.e. soap, water, and paper towels.	why.	if they are not washed properly when gardening.
	garden i.e. tools not stored correctly,		Knows and understands dangers and safety rules in the garden	
	rubbish on paths, thorns on plants.	Knows some dangers i.e. sharp tools, water		Understands dangers in the garden and preventative measures to
	Knows that gloves go	spillages, rubbish, thorns, tools carried downwards.	Knows why gloves should be worn before gardening.	minimise the dangers.
	gardening.	Knows that gloves	Knows why gardening tools must be stored safely.	Understands why gardening gloves must be worn and dangers of not
	Knows that gardening tools are	should be worn before gardening.		wearing them.
	stored in a specific	3 3		Can explain why gardening tools must
	place.	Knows that tools need to be stored safely.		be stored safely.

Subject specific	Is able to wash	Is able to wash hands	Is able to wash hands safely	Is able to demonstrate excellent
<u>skills</u>	hands with verbal	once directed with	and hygienically.	hygiene throughout lessons.
	prompts for each	some verbal prompts.		
	step i.e. wet hands,		Is able to follow basic safety	Is able to follow and understand
	put soap on, wash	Is able to follow key	rules when gardening.	safety rules when gardening.
	hands, dry hands.	safety rules when		
		given verbal	Is able to locate and store	Is able to independently locate, and
	Is able to follow key safety rules when	instructions.	gardening tools safely.	store gardening tools safely.
	modelled.	Is able to locate and put away key	Is able to use the correct equipment to ensure safety.	Is able to independently use the correct equipment to ensure safety
	Is able to put	gardening tools away		i.e. gloves, bin, and shovel.
	gardening tools back	when prompted.	Is able to stay away from	
	to the correct place		dangers in the garden and work	Is able to independently stay away
	with verbal support.	Is able to stay away from dangers in the	safely minimising the risk of dangers i.e. storing tools	from dangers and work safely minimising the risks of dangers and
	Is able to pick up	allotment.	correctly when not in use.	explain the reasons why.
	gardening gloves and		·	
	attempt to put them	Is able to put on		
	on.	gardening gloves.		
Theme- garden skil	la .			
Subject specific	Knows key parts of a	From a choice can	Knows equipment needed to	Understand what equipment is
knowledge	garden / allotment	identify the correct	complete a task and discuss the	needed to complete a specific
<del></del>	i.e. soil, plants,	equipment needed to	steps to use.	gardening task and discuss the steps
	water, path.	complete a familiar	31003 10 436.	to use.
	, pa	task.	Knows how a seed needs to be	
	Knows a familiar		planted and can identify what	Can explain how to plant a seed and
	piece of gardening	Knows that a seed	plants need to grow.	what a plant needs to grow.
	equipment.	needs to be planted in		
		soil and that a plant	Knows the name of parts of a	Knows a range of insects and animals
	Knows what a plant	needs water and	flower: seed, flower, leaf,	live in a garden / allotment and

stem, and root.

needs to grow using

pictorial answers.

a choice of 3

sunlight to grow.

explain why they are good for a

garden / allotment.

	Knows at least two parts of a flower.  Knows that insets and animals can live in the garden / allotment.  Can identify tidy and untidy beds.	Knows the name some of the key parts of a flower; flower, leaf.  Knows the common animals and insects that live in a garden / allotment.  Knows that beds need to be looked after by picking litter and watering.	Knows insects and animals that live in a garden / allotment and identify some reasons why they are good for a garden / allotment.  Knows how to maintain a bed i.e. pick litter, leaves, water, trowl soil, weed.  Knows how animal and insects houses help i.e. keeps animals safe.	Knows the different parts of a flower using the correct terminology and explain the uses.  Can understand why beds have to be maintained and explain the steps for doing so.  Can understand the negative effects of litter on the environment.  Understand the positive effects of having insect / animal houses for the environment.
Subject specific skills	Is able to use a piece of gardening equipment after demonstration and with verbal support.  Is able to plant a seed after demonstration and using symbolised steps to support.  Is able to follow a simple symbolised step to help build an insect / animal house.  Is able to move soil to help fill a raised bed.	Is able to use gardening equipment after a staff demonstration.  Is able to plant seeds after a demonstration by staff identifying the correct tool needed.  Is able to follow a 2 step symbolised instructions to build an insect / animal house.  Is able to identify what a plant needs to grow from a choice of answers.	Is able to identify and use gardening equipment safely.  Is able to plant seeds using tools and ensure plants have the correct resources to grow i.e. water.  Is able to build an insect / animal house following 4 step written instructions.  Is able to maintain beds using the correct equipment.  Is able to fill a watering jug to a specified ml in increments of 100ml.	Is able to confidently identify and use a range of gardening equipment safely.  Is able to plant seeds using the correct tools and ensure plants have the necessary resources to grow i.e. water, planted in sunlight.  Is able to follow 6 step written instructions to build an insect / animal house.  Is able to maintain beds to a high standard using the correct equipment independently.  Is able to lead a small team to build a raised bed and fill with compost.

	Is able to pour water on to the soil using a watering jug with some staff support.	Is able to follow verbal instructions to help maintain and build beds.  Is able to fill a watering jug up to the top.		Is able to accurately fill a watering jug to a specified mlin increments of 50mli.e. 550ml, 1500ml,
Theme-Recycling				
Subject specific knowledge	Can identify rubbish in the environment.  Knows that rubbish is put into bins.	Knows that rubbish is bad for the environment.  Knows that rubbish is put into bins and can be sorted into different bins.  Knows that recycle means reuse again.	Identifies what recycle and upcycle mean and can identify some ways it can help the environment.  Can identify issues rubbish causes on the environment i.e. injuries animals.  Knows how to reduce waste.  Knows that recycling centres sort materials for reusing.	Knows that a range of products can be recycled and reused.  Understand what recycle and upcycle mean and can explain why it is important to recycle and upcycle.  Knows how to reduce waste and can explain the advantages.  Knows that recycling centres help sort and separate into different types of materials by hand or machine (or both) before being sent to manufacturers who make it into new products.  Is able to explain the effects human activity has on the earth e.g. litter, plastic pollution and the effects it has on the environment.
Subject specific skills	Is able to pick litter after demonstration	Is able to recycle materials into clearly	Is able to pick litter using the correct equipment.	Is able to recycle materials correctly and suggest a range of ways an item can be upcycled.

	hen given the orrect equipment.	symbolised containers.  Is able to pick litter	Is able to recycle materials and suggest a way an item can be upcycled.	Is able to pick litter using the correct equipment and disposing of appropriately i.e. compost, recycle,
red int syl col	s able to correctly ecycle materials to clearly embolised ontainers using a moice of two.	when given the correct equipment.		Is able to upcycle using a range of

## Personal development

Problem solving-

Linked to resolving any issues encountered, finding a way to solve the problem when gardening. .

Communication skills-

Using full sentences/signs appropriate, to communicate instructions and ideas, listening and responding appropriately to other peoples ideas.

Self-belief-

Never giving up if unable to resolve the issues, continue to ask, listen and try different solutions.

Self-management-

Linked to managing equipment safely and managing behaviours.

Team-work-

Linked to working in small groups and realising a goal as a group, cooperating with a group and working together effectively.

### Suggested activities

## P5-L3

Recycling centre visit

Old clothes upcycle

Make range of reusable resources out of waste products: vases, storage can, bunting...

Planting seeds.

Maintaining beds.

Watering flowers.

Picking the harvest.

Washing picked vegetables.

Investigating the herbs in the sensory garden.

Sampling a herb a week through cookery, tasting raw (where possible) and in food/teas.

Dead heading flowers to encourage new buds.

Maintaining vegetables patches,

Researching vegetables and the pests they attract. Research and test natural remedies to eradicate the pests

Rainfall measurements

Collecting and identifying bugs.

Worm counts

Making bird feed.

Build a bug house.

Scrap book of the wildlife found in the school playground.

Make a mini wormery using a large glass jar.

Building birdhouses.

Attracting the right bugs to the vegetable patch. Researching which plants will attract bees & relevant bugs to help pollinate and spread seeds. Sowing and planting these out.

Calculating plant numbers from seed packs and keeping a log of the info. How many were sown? How many germinated? How many were pricked out? How many healthy plants survived outside?

Measuring and marking appropriate distances when planting out.

Creating a calendar of time sown and expected harvests.

Breaking down original costs of seeds, pots etc & how much we would sell our vegetables for. Create a spreadsheet.

#### Online resources

https://www.upcyclethat.com/

https://www.recyclenow.com/how-to-recycle/what-happens-to-my-recycling

https://littlebinsforlittlehands.com/bee-house/

https://www.gardenersworld.com/how-to/grow-plants/10-gardening-projects-for-kids/

https://https://www.rhs.org.uk/advice/health-and-wellbeing/children-getting-them-interested-in-gardeninggardeningforkids.co.uk/

https://www.saga.co.uk/magazine/home-garden/gardening/advice-tips/reusing-single-use-plastic-in-the-garden

https://www.recyclenow.com/local-recycling

https://www.pinterest.co.uk/pin/235876099206963324/ https://handsonaswegrow.com/free-recycling-activities-kids/

## **Evidencing Work**

Practical evidence sheets, research work, gardening work. All picture and teacher evidence needs to be formatted within the ASDAN booklet.