## 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 pu 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 th 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:	<ul> <li>upcycling &amp; design tasks</li> <li>explore uses of recycled plates</li> <li>sow seeds for year round gr</li> <li>Sowing</li> <li>create and keep records, cat</li> <li>use technology to share information</li> <li>sow successional seeds and cat</li> </ul>	r picking. He materials. Ims and plant pots from recycled materials for Instics Yowth and harvest Iendars to monitor growth. Formation of sown seeds and plant care.				

		<ul> <li>Plant care</li> <li>-understand the needs of plant varieties and can implement care needs, for example build supporting structures, successful positioning of planting, disease prevention.</li> <li>- build 'plant profiles' to provide care information for future classes/ share with other Key stages.</li> <li>- maintain areas and manage growth through regular attendance &amp; completion of tasks related to consistent plant care, such as regular weed identification and management.</li> <li>-sow seeds</li> </ul>					
Core vocab needed for subject/to	this	Recycle seeds,	e, re-use, reduce, wa	ste, Earth, help, sow, li	tter, upcycle, waste, material, design, plan, make, evaluate, plastic, sowing,		
Vocabulary will have ac in other to subject are	pupils cessed pics or	Garden	, grow, plants, fork,	trowel, spade, plant po <sup>.</sup>	t, watering can,		
Key vocabu taught with topic:	•		ment, positive, nega results, conclusion.	tive, world, global warm	ning, pollution, recycling, energy, waste, survey, tally chart, eco-friendly,		
			Pr	ior knowledge: what p	upils may already have studied		
Key stage	Sub	ject	Topic title	Term/year taught	Content/What might pupils already know?		
KS3	DT Gr	row it	Soil, seeds an life cycles and food.	(2022-2023)	Soil – ground based -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 Eaad		
					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 wor	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- c	ountries where food is harvested,	history of plants, vegetables, gardening, gardening tools.			
PE- active healthy lifesty	PE- active healthy lifestyles.				

	<u>OU P5-6</u>	<u>OU P7-8</u>	<u>OU step 1</u>	<u>OU Steps 2-3</u>
Theme-Safety				
<u>Subject specific</u>	Knows where hands	Knows where hands	Understand why we need to	Understand why we need to wash our
<u>knowledge</u>	need to be washed.	are washed and what	wash our hands when gardening	hands and can give relevant examples
		is needed to wash	and can identify some reasons	of why we wash hands and the risks
	Knows of some	hands i.e. soap, water,	why.	if they are not washed properly when
	dangers in the	and paper towels.		gardening.
	garden i.e. tools not		Knows and understands dangers	
	stored correctly,		and safety rules in the garden	
	rubbish on paths,	Knows some dangers		Understands dangers in the garden
	thorns on plants.	i.e. sharp tools, water		and preventative measures to
		spillages, rubbish,	Knows why gloves should be	minimise the dangers.
	Knows that gloves go	thorns, tools carried	worn before gardening.	
	on hands before	downwards.		
	gardening.		Knows why gardening tools	Understands why gardening gloves
		Knows that gloves	must be stored safely.	must be worn and dangers of not
	Knows that	should be worn		wearing them.
	gardening tools are	before gardening.		
	stored in a specific			Can explain why gardening tools must
	place.	Knows that tools need		be stored safely.
		to 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 prompts for each	once directed with some verbal prompts.	and hygienically.	hygiene throughout lessons.
	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	5 5	
		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	safely minimising the risk of	from dangers and work safely
		from dangers in the	dangers i.e. storing tools	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.		
		gar dennig groves.		
Theme- garden skills				
Subject specific	Knows key parts of a	From a choice can	Knows equipment needed to	Understand what equipment is
<u>knowledge</u>	garden / allotment	identify the correct	complete a task and discuss the	needed to complete a specific
	i.e. soil, plants,	equipment needed to	steps to use.	gardening task and discuss the steps
	water, path.	complete a familiar		to use.
		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		Known a names of indepts and animals
	Knows what a plant	soil and that a plant needs water and	Knows the name of parts of a flower: seed, flower, leaf,	Knows a range of insects and animals live in a garden / allotment and
	Knows what a plant needs to grow using	sunlight to grow.	stem, and root.	explain why they are good for a
	a choice of 3			garden / allotment.
	pictorial answers.			
	pierorial answers.			

	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.
<u>Subject specific</u> <u>skills</u>	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 ml in increments of 50ml i.e. 550ml, 1500ml,
Theme-Recycling				
<u>Subject specific</u> <u>knowledge</u>	Can identify rubbish in the environment. Knows that rubbish is put into bins. From a choice can identify and match items that can be recycled.	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. Knows that some items of rubbish can be recycled.	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 the purpose of a recycling centre.	<ul> <li>Knows that a range of products can be recycled and reused.</li> <li>Understand what recycle and upcycle mean and can explain why it is important to recycle and upcycle.</li> <li>Knows how to reduce waste and can explain the advantages.</li> <li>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.</li> <li>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.</li> <li>Is able to understand how a recycling centre functions and the purpose of</li> </ul>

<u>Subject specific</u> <u>skills</u>	Is able to pick litter after demonstration when given the correct equipment. Is able to correctly recycle materials into clearly symbolised containers using a choice of two. Is able to identify items which are recycled at a recycling centre using a choice of symbols.	Is able to recycle materials into clearly symbolised containers. Is able to pick litter when given the correct equipment. Is able to identify rubbish which can be recycled at a recycling centre.	Is able to pick litter using the correct equipment. Is able to recycle materials and suggest a way an item can be upcycled. Is able to give a report on findings from a visit to a recycling centre.	Is able to recycle materials correctly and suggest a range of ways an item can be upcycled. Is able to pick litter using the correct equipment and disposing of appropriately i.e. compost, recycle, bin. Is able to upcycle using a range of resources. Is able to give a detailed report on findings from a visit to a recycling centre using key language.

Personal development	Problem solving_
	Linked to resolving any issues encountered, finding a way to solve the problem when gardening
	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. <u>Self-management-</u>
	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	
<u>P5-L3</u>	
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 vegetable	S.
Investigating the herbs in	
	rough cookery, tasting raw (where possible) and in food/teas.
Dead heading flowers to e	
Maintaining vegetables pa	
	nd 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.	formal in the school algorithm and
Make a mini wormery using	e found in the school playground.
Building birdhouses.	g a large glass jar.
	to the vegetable patch. Researching which plants will attract bees & relevant bugs to help pollinate and spread seeds. Sowing and planting these
out.	To the vegetuble parent. Researching which plants will attract bees a relevant bugs to help poinnate and spread seeds. Sowing and planting these
	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?	The model packs and hosping a log of the mile, new many were sowns new many germinateds new many were pricked outs new many neutring
	propriate distances when planting out.
	le sown and expected harvests.
	its 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.