

KS3 - Grow-it

Topic: Allotment Care

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Subject curriculum intent:	<p>We want our pupils to develop an increased awareness of the environment, sustainability and global issues related to food production. Through this knowledge pupils will develop a sense of responsibility and understanding around personal contributions to the global community. We want pupils to be able to access a range of outdoor activities, areas and growing spaces that promote confidence and self-esteem thus promoting positive physical, emotional and healthy food choices in adulthood. Grow it will also act as a vehicle to support embedding science, literacy and numeracy skills.</p> <p>We want our pupils to develop the confidence to engage with community groups involved in local gardens and to have the ability to grow foods to prepare and eat at home.</p>		
End of KS3 intent/outcome	End of KS4 intent/outcome	End of KS5 intent/outcome	
Pupils engage with their outdoor community environments. Pupils understand that food is grown from plants. Pupils have developed basic skills around plant care such as sowing, caring for and harvesting foods. Pupils begin to recognise food waste and understand the positive effects of composting in the local environment. Pupils engage with their learning through cross curricular activities such as art, English, maths & science.	Pupils broaden their knowledge of their environment both locally and globally. Pupils understand the positive impact that growing food has on sustainability, health and the environment, locally and globally. Pupils develop an appreciation for the importance of food and farming across history and culture. Pupils are able to further develop and transfer skills related to gardening and growing their own foods through an onsite allotment. Pupils know how to use harvested foods within cookery.	Pupils have a good knowledge of the environmental impact of food growth across the globe. Pupils are able to apply practical skills and knowledge of food growth to a 'vocational environment' in the form of an offsite community allotment 'The Plot'. Pupils understand how to harvest, prepare and cook a wide range of grown foods through collaborations with school enterprise project 'From Plot to Plate'. Pupils are aware of local gardening groups and community areas available to them. Pupils understand the importance of fresh food for a healthy diet and have the confidence to grow food at home.	
Intent for this topic:	Pupils will develop the skills needed to improve an area of garden and how to use a range of available space to maximise growing healthy fresh foods. Pupils will learn skills related to caring for soil, plants and the environments including how to manage plant waste and compost effectively. Pupils will also develop a sense of seasons and seasonal growth patterns.		
Key vocabulary taught within this topic:	Compost, waste, food, garden, tools, seeds, materials, reduce, insects,		
Links to other subjects:	English Maths Science Cook It		

	B2 P 5	B2 P 6-8	B2 step 1c-1b	B2Step 1b-2c	B2Step 2c-2a
<p>Subject specific knowledge</p> <p>What do pupils need to know?</p>	<p>To know when it is cold outside.</p> <p>To know what a plant is</p> <p>To know how to use a rake</p> <p>To know:</p> <ul style="list-style-type: none"> -pot -rake -soil -bin <p>To know indoors and outdoors</p>	<p>To know what weather to expect in winter. (cold, freezing, wet.</p> <p>To know:</p> <ul style="list-style-type: none"> -Hand tool -Compost bin -Rake is a large garden tool <p>To know the ground needs to be turned</p> <p>To know some plants need to be removed</p> <p>To know what a root is</p> <p>To know weeds need to be removed.</p>	<p>To know that roots can not be composted.</p> <p>To know what a weed is</p> <p>To know which times of the year the weather becomes colder.</p> <p>To know gardening tasks are different in winter to summer</p> <p>To know the ground needs to be turn when a plant has been removed</p> <p>To know some plants grow in winter (leeks, cauliflower, broccoli, cabbage)</p> <p>To know tools and equipment will rust or damage if left outside</p>	<p>To know why roots can not be composted, referring back to rotting and disease</p> <p>To know materials will need protection from cold weather</p> <p>To know tasks:</p> <ul style="list-style-type: none"> - Clearing beds - Composting - Cleaning paths - Maintaining woodwork - Bringing equipment inside <p>are connected to autumn/winter</p> <p>To know materials can be added to beds to improve soil conditions</p> <p>To know woodwork needs to be treated to maintain its lifespan</p>	<p>To know the effects of root rot in an allotment</p> <p>To know annuals and perennials</p> <p>To know which materials can be added to beds to improve soil conditions</p> <p>To know the effects of weather on woodwork</p> <p>To know that soil condition will affect next year's growth</p>
<p>Subject specific skills</p> <p>What do pupils need to be able to do?</p>	<p>Is able to pull out a plant</p> <p>Is able to pick up items and put into a compost bin.</p> <p>Is beginning to rake a small area of ground</p> <p>Is able to tip out left over soil from pots.</p>	<p>Is able to use a hand tool to overturn patches of soil</p> <p>Is able to collect a range of items found around the garden to compost</p> <p>Is able to independent rake a small area of ground</p> <p>Is able to remove a whole plant including the root</p>	<p>Is able to independent rake a large area of ground and put brown leaves into the mulch pile</p> <p>Is able to locate weeds within a bed, remove them and compost</p> <p>Is able to explain why tools are stored inside of winter</p>	<p>Is able to remove a young plant from a container with care and pot on or plant out</p> <p>Is able to use nets and canes to provide basic protection for fruit from birds</p> <p>Can identify risks related to use of garden tools</p>	<p>Is able to use a spade, fork or hoe for general maintenance tasks</p> <p>Is able to demonstrate good techniques to sow successfully e.g. ensuring trays are clean, breaking soil to a fine tilth ,sowing to the correct depth and evenly spaced etc.</p>

	Is able to collect tools and equipment and store inside over winter.	Is able to separate roots from the plant.			Is able to safely use secateurs to prune shrubs
		Is able to follow a visual to identify a weed, pulling it out and putting it into compost			Is able to identify beneficial organic materials for particular plants and apply these with accuracy to roots and stems e.g. tomato feed, banana peels for peppers
<u>Suggested teaching activities</u>	Sowing seeds Weeding Sorting items to compost Taking care of part of the school allotment Knows main parts of a plant Pupils to compost their own snack waste form classes Harvest and explore vegetables Explore roots and leaves. Explore trees and leaves. Visit local park. Explore/try a range of fruits and vegetables textures, colours, size etc. Use an increasing number of raw ingredients and resources to create healthy snacks. Record likes/dislikes in relation to responses to food textures, smells and tastes.				
How should I teach this?					