KS3 -Grow it

Topic: Seeds and Life Cycles

| Subj | ect | t |
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| curr | icul | lum |
| inter | nt: | |

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 selfesteem 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.

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.

End of KS3 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.

End of KS4 intent/outcome

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 p an appreciation an offsite community allotment 'The Plot'. Pupils for the importance of food and farming across history and culture. Pupils are able to further develop and transfer skills related to gardening and school enterprise project 'From Plot to Plate'. growing their own foods through an onsite allotment. Pupils know how to use harvested foods within cookery.

End of KS5 intent/outcome

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 understand how to harvest, prepare and cook a wide range of grown foods through collaborations with 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.

| Inte | nt | tor |
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| this | to | pic: |

Pupils will understand the life cycle of a seed and be able to experience each key step of growth. Pupils will recognise weather conditions and make assessments around needs of a plant. Pupils will learn the skills needed to recognise stages of plant growth and the care needed. Pupils will be supported to learn about and recognise their environment. Pupils will gain knowledge of tasks related to plant care.

Key vocabulary taught within this topic:

Seeds, growing, planting, sunlight, life cycle, Soil, plants, care, water, needs, nutrients, healthy, food, harvesting, compost, biodegradable, range of gardening tools,

Links to other subjects:

Science

Cook It Life Skills

| | OU P Steps 5-6 | OU P Steps 7-8 | OU step 1 | OU Step 2 | OU Step 3 |
|----------------|--------------------------|------------------------------|------------------------------|------------------------------|--------------------------|
| <u>Subject</u> | To know what a: | To know a plant needs: | To know a plant will not | To know optimum | To know different |
| specific | -seed | -water, sunlight soil | grow if it does not have | conditions needed for seed | plants take different |
| knowledge | -bulb | | any of the following: water, | growth. | periods of time to |
| Knowleage | -plant | To know when a plant is | sun, soil | | grow |
| | -pot | healthy or not | | To know different plants | |
| What do | -soil | | To know key parts of a | need different amounts of | To know which plants |
| pupils need | -water | To know tools: | plant: | space. | grow best in which |
| to know? | l - | -trowel | -roots | | conditions |
| 10 Know: | To know what soil is wet | -Gloves | -petals | To know the main purpose | |
| | or dry | -Watering can | -leaves | for each tool: | To know stages of |
| | | | -stem | -Trowel | plant growth |
| | To know when a plant has | To know: | | -Rake | |
| | grown | -bush | To know it is important | -Hand fork | To know seasons and |
| | | -Plant | that seeds and bulbs | -Sieve | connected weather |
| | | -tree | (plants) need space to | | |
| | | | grow. | To identify weather | To know which part of |
| | | | | conditions and know when | a plant is edible (fruit |
| | | | | it is and is not an | & veg) |
| | | | | appropriate time to sow | |
| | | | | seeds / plant bulbs | |
| <u>Subject</u> | Is able to locate and | Is able to use choice of | Is able to locate: | Is able to give suggestions | Is able to follow a |
| specific | name a: | symbols to identify what a | -roots | as to why a plant has | season calendar |
| skills | -seed | plant needs | -petals | either died or is not | |
| SKIIIS | -bulb | | -leaves | healthy. | Is able to plant a range |
| | -plant | Is able to look for | -stem | | of seeds/bulbs in a |
| What do | -pot | indicators such as growing | on a plant independently | Is able to select the | range of spaces |
| pupils need | -soil | leaves, wilting and stunted | | correct tools needed for a | |
| to be able | | growth to identify when a | Is able to plant seeds and | specific job | Is able to maintain a |
| | To be able to fill a pot | plant is not healthy. | or blubs outside that are | | plant's health including |
| to do? | with soil | | evenly spaced | Is able to suggest a type | - knowing how it is |
| | | Is able to follow 2-step | | of plant that would fit into | needs to be cared for |
| | To be able to embed a | instructions to plant a seed | Is able to use a range of | a given space | |
| | seed into soil | or bulb. | hand tools confidently | (understanding plant size) | Is able to identify |
| | | | | | when a plant will fruit |

| | To be able to water a plant until the soil is | | Is able to follow a set of more complex instructions | |
|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|--|
| | sodden. | | to sow seeds or bulbs | |
| | | | independently, using a | |
| | 1 1 11: 1 1/61 | | range of tools. | |
| <u>Suggested</u> | Labelling a plant/flow | • • | | |
| <u>teaching</u> | Plant a seed and with support care for it | | | |
| <u>activities</u> | Plant seeds and look after them | | | |
| | Record results | | | |
| How should | Harvest and explore vegetables | | | |
| I teach | Explore roots and leaves. | | | |
| this? | Explore trees and leaves. | | | |
| | Visit local park/allotment | | | |
| | ' | | | |
| | 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. | | | |
| | Look at the link between healthy foods and how they contribute to our health. | | | |
| | Visit the local park to explore leaves and seeds. | | | |
| | Use an increasing number of raw ingredients and resources to create food. | | | |
| | Explore/try a range of foods. | | | |
| | Use an increasing number of raw ingredients. | | | |
| | Look at healthy / u | Look at healthy / unhealthy foods. Which ones do we like and why. | | |
| | Create groups of healthy and unhealthy foods. | | | |