



### Open Futures Resources

Raising attainment through bringing learning to life  
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# Teacher training

## Curriculum links with the garden as identified by teachers at gardening teacher training sessions

(Summer Term 2007 – HY Schools: Barnham, Carden & Chyngton).

Covering Early Years & Key Stages 1 & 2



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## Curriculum links

### Literacy

- Instructional Text, such as 'how to grow a seed', 'how to plant a tree'.
- Imaginative / creative text, such as stories about the adventures of animals / tools in the garden once the school is closed.
- Poetry, about the seasons or the harvest.
- Descriptive text eg an activity, a plant etc..
- Comparing and contrasting.
- Persuasive text, such as why you should eat fruit & veg.
- Researching different plants.
- Report writing, perhaps on different plants, plant families and designs of gardens.
- Producing information leaflets.
- Reading, eg information on seed packets, recipes.
- Reading stories, such as the Enormous Turnip, Little Red Hen.
- Developing speaking and listening skills, eg confidence speaking in a small group about garden experiences.
- Drama, eg using the garden to create role play areas.
- Have a seat in the garden as a quiet reading area.

### Numeracy

- Counting, eg plants, seeds.
- Sorting activities / Venn diagrams.
- Graphs of growth of flowers / plants, eg pictograms.
- Measuring, eg seeds, plant growth, size of garden & beds, spacing when planting.
- Weighing, eg yield on different days, recipes.
- Capacity, eg watering.
- Data handling (all of the above).
- Mental maths, eg addition of harvest / division of seeds between number of pupils / difference between their estimate and actual amount.
- Distances, eg carbon footprint / food miles.
- Ratio / fractions, eg how much of the garden is used for different crops.
- Estimating, eg yield of crops such as potatoes, recipes – how many carrots needed to make 100g.
- Looking at patterns of petals / leaves, eg sequences, symmetry.

### Geography

- Where do plants / vegetables originate from?
- Water cycle: how plants need water to grow and transpire.
- Weather conditions and how they affect plant growth.
- Food miles.
- Drawing site plans of garden, eg layout, compass points, a key.
- Recycling & composting.

## Science

- Plant growth & lifecycles – from germination, flowering to pollination. Measuring & recording growth.
- Looking at and labelling parts of a plant (as appropriate for different age groups).
- Types of seed dispersal.
- Types of soil for different plants, pH testing.
- Light and shade.
- Conditions needed for growth, *eg* light, water, warmth.
- Prediction of yield.
- Predators and pests.
- Pest control & effect on environment.
- Healthy diet, *eg* '5 a day', food pyramids.
- Habitats.
- Food chains.
- Comparing tastes, *eg* sweet / bitter.
- Variation, *eg* discussing & drawing a variety of plants.
- Matching seeds to their parent plants.

## History

- Food in the past, *eg* what did the Romans / Tudors grow and eat?
- Historical role play around the garden, such as creating a Dig for Victory Garden.
- Garden design & how it has changed through history.
- Garden jobs and tools over time .
- Cooking utensils.
- Plans of herb, kitchen gardens from the past, *eg* Preston Manor, Brighton.
- Uses of plants over time, *eg* medicinal, dyes, food.
- When plants were brought to this country from other parts of the world.
- Rationing, especially during WWII. How people coped and what they grew (linked to Dig for Victory).
- Exploring the history of the school and whether it has been used for gardening in the past.

## Languages

- Dual language plants / flowers / seed / tool labels.
- Learning the names of vegetables & fruit in different languages.
- Where crops grow around the world.
- Describing garden activities in other languages, *eg* tools, plants, numbers (and counting), colours.
- Speaking in sentences in different languages about what children like / dislike to eat and grow.
- Songs & stories in other languages.
- Drawing pictures of plant and labelling parts in different language.
- Recipes and national dishes from other countries.

## Personal, social & health education (PSHE)

- Sharing, taking turns.
- Working as a team, having a common goal.
- Gardening as a social / communication activity: listening to & helping others.
- Taking care of the environment, thinking about sustainability.
- Looking after our tools.
- Healthy eating.
- Food from other cultures.
- Carbon footprint.
- Recycling & composting.
- Health & Safety, *eg* using tools safely, safety in the sun.
- Careers in gardening.



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# Teacher training

Sheet 2



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Curriculum links

## Art and Design

- Still life, observational drawings and sketching. Comparing these with famous works of art, eg Van Gogh's Sunflowers.
- Making patterns, for instance with leaves.
- Designing future gardens / layout for the garden – evaluating design.
- Designing your own magic plant and creating its seed packet.
- Creating willow climbers / sculptures.
- Sculpture using natural materials.
- Using seeds, flower heads, leaves for collage work.
- Printing with seeds and other materials.
- Screen printing based on nature.
- Looking at garden / landscape designs from well known designers.
- Artists who have painted gardens and landscapes, such as Monet and Gainsborough.
- Photography.
- Using plant dyes in textile work.
- Using different colour effects and exploring the mix of different shades / camouflage.
- Making 3D models of plants, eg from papier maché.
- Using the garden for inspiration for other art & design projects.
- Flower pressing, eg making cards, bookmarks.
- Painting & decorating flower pots.

## Information & communication technology (ICT)

- Graphs of growth / handling data.
- Spreadsheets about what is being grown, identifying successful crops.
- Labelling parts of plant on a Smartboard.
- Making notices, information labels, seed packets.
- Planning & designing positions of beds using a drawing programme.
- Designing an identification 'key' / flow diagram, eg does the plant have a tap root? Y / N
- Looking at videos / pictures of plants, gardening activities, eg including *filmit*.
- Taking digital photos of the garden and adapting them with software.
- Making video diaries and podcasts (using *filmit*).
- Researching garden styles, plants and recipes on the internet.
- Emailing schools in other countries to find out what, how and why they grow.

## Religious education

- Harvest songs / hymns.
- Biblical stories featuring crops, growing, food, creation stories.
- Children to find recipes that use ingredients from the Bible.
- Growing your own money, eg use of herbs such as dill & coriander as a currency for trading.
- Different faith festivals & different faith recipes.
- Celebration of food using own grown produce..
- Awe & wonder of natural world around us.
- Caring & nurturing.