Durham Lane Primary School: Topic Planning

<u>Topic: Plants</u>

<u>Term:</u> Year B Summer 2

<u>Class:</u> 3/4

Subjects Object	ives	Key Knowledge/Key	Key Vocabulary	Skills	Activities/ Tasks
parts of f plants: ro stem/trun and flowe 3.2 Explo requireme plants for growth (a water, nu soil, and grow) and vary from plant 3.3 Inves way in w is transpo plants 3.4 Explo that flow the life ay flowering including	the of different flowering bots, nk, leaves ers. ore the ents of r life and air, light, utrients from room to d how they n plant to stigate the which water orted within ore the part rers play in ycle of g plants, pollination, nation and	 Concepts/Key Elements To identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. To explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant To investigate the way in which water is transported within plantss To explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal 	Plants Stem Trunk Flower Petal Roots Leaves Ovule Ovary Filament Stigma Style Anther Pollen Sepal Receptacle Pollenate Stamen Reproduction Seed dispersal Nutrients Growth Seed formation Life cycle Air Light Water	 Asking Questions & Planning Enquiries Raise their own relevant questions about the world around them Should be given a range of scientific experiences including different types of science enquiries to answer questions. Start to make their own decisions about the most appropriate type of scientific enquiry they might use to answer questions. Set up simple practical enquiries, comparative and fair tests. Recognise when a simple fair test is necessary and help to decide how to set it up. Make systematic and careful observations. Help to make decisions about what observations to make, how long to make them for and the type of simple equipment that might be used. Take accurate measurements using standard units. Collect and record data from their own observations and measurements in a variety of ways: notes, bar charts and tables, standard units, drawings, labelled diagrams, keys and help to make decisions about how to analyse this data. Concluding Begin to look for naturally occurring patterns and relationships and decide what data to collect to identify them. With help, pupils should look for changes, patterns, similarities and differences in their data in order to draw simple conclusions and answer questions. Use relevant simple scientific language to discuss their ideas and communicate their findings in ways that are appropriate for different audiences, including orden and writken explanations, displays or presentations of results and conclusions for new values within or beyond the data they have collected and finding ways of improving what they have already done. 	 Identify and describe fu Create a diagr Year 1 and ext Discuss function Investileaves comp Requirements for life an Children to comprevious learni Children to plassills) Possilinutrie Could plants Investigate the way wa Food colouring White and leas tr could Plastic bag on Seal of should throw Life cycle of flowering p Examine inner Use wotsits as fingers) Role play procession

functions of different parts of flowering plants gram labelling parts of a plant (recapping teaching in xtending to label male/female parts too) ions of different parts of the plant. estigate this by removing parts of some plants (e.g. es and roots) and observe what happens to them in parison with plants who have had nothing removed) and growth

ome up with what plants need to grow (drawing on ning from KS1)

ivestigate how different variables affect plant growth. lan investigation (testing, measuring & recording

ible variables: removing air; light; water – too much?; ients; room to grow

ld grow different types of seeds to compare between nts

ater is transported within plants

ng investigation

ite flowers in coloured water should turn the flowers leaves a different colour – children can see the water travelled up the stem. If no white flowers available, Id show this with kitchen roll

n tree

a bag around a tree branch. After a week, children Ild see water in the bag. Explain the water flows

ugh the trunk, along the branch to the leaves. Leaves water, sunlight and carbon dioxide to make food and e of this water is returned to the air which is what be seen in the bag.

plants

workings of plants (e.g. daffodil/lily)

is pollen to show how they run onto insects (rub onto

cess of pollination (Nicky Waller page 15)

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Art	 To create sketchbooks to record their observations and use them to review and revisit ideas. To improve their mastery of art and design techniques, including drawing. Learn about great artists in history 	 Exploring, evaluating and developing ideas To be able to natural artwork in the world around us. To be able to make decisions about what looks best. To be able to review and evaluate art work. Drawing To produce a still life drawing of a plant or flower To understand different pencil tones and the effect this creates To use observational skills to draw images of natural objects To be able to identify and draw the effect of light on objects. To use a range of different media to achieve variations in line, texture, tone, colour, shape and pattern Artists To understand who Monet is To look at examples of his famous works 		 Exploring/ Evaluating and developing ideas Create sketch books to record their observations and use them to review and revisit ideas Select and record from observation, experience and imagination and explore ideas for different purposes Question and make thoughtful observations about starting points and select ideas for use in their work Begin to use artistic/visual vocabulary to discuss Experiment with a wider range of materials Think critically about their art and design Plan, refine and alter their work as necessary Drawing Experiment with a range of pencil tones and lines using graded pencils Encourage close observation of objects in both the natural and man-made world Identify and draw the effect of light (shadows) on a surface, on objects and people Introduce the concepts of scale and proportion. Use different media (e.g. charcoal, chalk, pastel, crayon, pens, etc.) to achieve variations in line, texture, tone, colour, shape and pattern 	 Observational drawings Focus on Monet looking
DT	 1a) use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups 2a) select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately 2b) select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their 	 Design, make and evaluate To research and plan healthy recipes using fresh ingredients To evaluate the success of recipes and identify areas for improvement To make a range of healthy recipes using fresh ingredients Food To understand how and where a range of produce is grown (herbs, strawberries, tomatoes) To understand how to cut, chop and peel produce To know about some chefs who use fresh ingredients 	Basil Mint Rosemary Tarragon Herbs Edible Growing Pesto Food groups Healthy Cutting Chopping Peeling Measure Blending Combining Ingredients Varieties Produce	Design • use research for design ideas • describe purpose of product • show design meets a range of requirements and is fit for purpose • have at least one idea about how to create product and suggest improvements for design • produce a plan which shows order, equipment and tools and explain it to others • make and explain design decisions considering availability of resources • make a prototype Make • select suitable tools and equipment, explain choices in relation to required techniques and use accurately • select appropriate materials, fit for purpose; explain choices • work through plan in order • realise if product is going to be good quality • measure, mark out, cut and shape materials/components with some accuracy • assemble, join and combine materials and components with some accuracy • apply a range of finishing techniques with some accuracy	 Grow herbs Make a strawberry and Tomato tasting lesson Make a tomato brusche Cook a pesto pasta disl

<u>Teacher:</u> Miss Hugill/Miss Drew

ngs of plants ring at recreating his artwork

and banana smoothie on chetta dish

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and o qualit 3a) e of exi 3b) e ideas agair desig consi other	ional properties aesthetic ties valuate a range isting products valuate their and products ast their own n criteria and der the views of s to improve work		 refer to design criteria while designing and making use criteria to evaluate product begin to explain how I could improve original design evaluate existing products, considering how well they've been made, materials, whether they work, how they have been made, fit for purpose discuss by whom, when and where products were designed know about some inventors/designers/ engineers/chefs/manufacturers of ground-breaking products Technical Knowledge – Food and Nutrition carefully select ingredients explain how to be safe/hygienic when preparing and cooking some dishes think about presenting product in interesting/ attractive ways understand ingredients can be fresh, pre-cooked or processed begin to understand about food being grown, reared or caught in the UK or wider world describe eat well plate and how a healthy diet=variety / balance of food and drinks explain importance of food and drink for active, healthy bodies prepare and cook some dishes safely and hygienically use some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking 	
English	See skills progression s	heet		 Explanation of the life Instructions on how to Setting description of a

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ife cycle of a plant to care for a plant of an enchanted garden