YEAR 3 PLANTS PLANNING

Class:	Term: Autumn 1	Subject: Science	Unit: Plants	
Differentiation and support (Detailed differentiation in weekly plans.)		English: writing up experiments in sequence using technical language		
SEN: write up investigations on v partners in mixed ability work. Ac	vriting frames. Support from more able Iditional adult support.	Maths: measuring length and ve	olume, drawing result tables and charts	
		ICT: using laptops to research information		
GT: provide headings for experim	nent sections. Send off to experiment			
sooner than rest of group. Provid	de with equipment, but provide less	Geography: how environment a	ffects plants	
scaffolding on how to conduct the	e experiment. Encou <mark>rage</mark> conclusions that			
draw on scientific knowledge and	l enquiry skills.	D&T: drawing and annotating d	iagrams	

w	Learning Objective	Skills/ <mark>knowledge/act</mark> ivities	Resources	Assessment: Success criteria	Evaluation
1a	Self-assess knowledge of plants (15 mins)	Children complete a mind map on what they know already about plants	Mind map frames	Formative assessment exercise	
1b	Explore the requirements of plants for life and growth (air, sunlight, water, nutrients, warmth, time and room to grow) and how they vary from plant to plant Understand that climate impacts on the lives of plants and that they are adapted to suit their climate (45 mins)	Intro: Ask the children to think, pair, share what things plants need in order to be able to thrive Ask the children if they can think of any examples of plants that need more or less sunlight or water e.g. cacti and oranges Watch the video about what plants need to be able to grow at https://www.bbc.co.uk/bitesize/topics/zpxnyrd/articles/zkp2jsg (if the link does not work, Google 'BBC Bitesize KS1 What do plants need to grow?') – note: the video does not mention that plants need nutrients and enough space to grow Explain that there are however thousands of species of plants and they vary greatly in what they need to survive; for example, plants in the tropical rainforests need to be able to survive without having lots of space to themselves because there is such a high density of plants there Explain that plants are adapted to their environments and watch video that shows adaptations of some Arctic plants at https://www.bbc.co.uk/bitesize/clips/zwy7tfr (if the link does not work, Google 'BBC video plant adaptations') Explain independent work Revise the features of each climate zone: desert (hot and dry), polar	Check videos work and have open and ready to play Descriptions of the adaptations of different plants Writing frames	MUST: know that plants need air, water, sunlight, nutrients, warmth, time and room to grow SHOULD: be able to tell which climate a plant lives in based on a description of its adaptations COULD: explain why a plant might not survive in a particular climate	

		Main: Children read descriptions of adaptations of plants that live in a particular climate zone / biome From the adaptations, children need to guess which climate zone / biome the plant lives in and explain their choice: I think plant number 1 lives in a climate because Extension: Answer questions on why one of the plants would not be suited to a particular climate Plenary: In partners children compare their answers and discuss reasons for any differences Discuss correct answers to independent work Revise the things that plants need to survive Watch the videos at <u>https://www.bbc.co.uk/bitesize/topics/zy66fg8/articles/zcmtk2p</u> (if the link does not work, Google 'BBC Bitesize What does a plant need to live') <u>https://www.bbc.co.uk/bitesize/topics/zy66fg8/articles/z98jpbk</u> (if the link does not work, Google 'BBC Bitesize What are the requirements for plant growth?')			5
2	Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers (1 hour)	Intro: Show children a real plant and explain the names of the different parts of the plant: roots, leaves, stem, flower and fruit. Watch the video at <u>https://www.bbc.co.uk/bitesize/topics/zy66fg8/articles/zcinp39</u> (if the link does not work, Google 'BBC Bitesize What is a plant') Model how to draw and label a diagram of a plant, and add bullet point notes about each part of the plant under its name e.g. under ROOTS, have a bullet point of 'absorb water' Emphasise that their diagrams need to be large (not tiny) and that they should be tall enough to take up most of the page Revise how to use the contents and the index of a non-fiction book to find information in it Model for children how to navigate the websites that we will be using Main: Children to draw and label a diagram of a plant Split class into two groups, with each group taking it in turns to spend 15 minutes using books or computers / tablets to find out more about the function of the roots, leaves, stem, flowers and fruit of plants, and adding this information to their diagrams	Plant (ideally with fruit on it) Video open and ready to play with ads skipped and / or closed Computers / tablets Non-fiction books on plants Hyperlinks saved on network as a temple .dotx so that children can all	MUST: draw and label a diagram of a plant SHOULD: annotate their diagram with extra information COULD: find out the meaning of technical words e.g. chlorophyll, and use them to annotate their diagrams	

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	explain why this is the case.		
	Emphasise need to be careful not to get soil in mouths, noses etc. (you might want the children to wear gloves)		
4	Main: Children write aim, prediction and method and then plant seeds. Children will need to water them over the next couple of weeks		
	 Plenary: Children to discuss their predictions and explain them to each other		

To access the complete version of the <u>Year 3 Plants planning</u>, and all of the resources need to teach it, visit:

http://www.saveteacherssundays.com/science/year-3/325/

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