

YEAR 2 PLANTS PLANNING

Class:

Term:

Subject: Science

Unit: Plants

<p>Differentiation and support (Detailed differentiation in weekly plans.)</p> <p>SEN: write up investigations on writing frames requiring <i>less</i> information. Support from more able partners in mixed ability work. Additional adult support.</p> <p>GT: write up investigations on writing frames requiring <i>more</i> information. Encourage predictions & conclusions that draw on scientific knowledge. Provide extension activities to apply own knowledge and to research information</p>	<p>English: writing up experiments in sequence using technical language, listening for information in video clips and</p> <p>Maths: comparative language, completing results tables and bar charts</p> <p>ICT: videos on IWB and online activities</p> <p>PSHCE & PE: learning how to look after plants</p>
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Plant some seeds and bulbs (other than cress) e.g. beans, at the start of the unit, measure them at regular intervals and keep a diary of their development

W	Learning objective	Teaching activities	Resources	Assessment: Success Criteria
1b	<p>To understand how plants with seeds grow and reproduce</p> <p>To understand the conditions that seeds require in order to germinate</p> <p>(45 mins)</p>	<p>Intro: Ask children to think, pair, share what they know about how plants grow and about what plants need in order to be able to grow Explain that a lot of plants produce seeds, which grow into new plants Watch the video at https://www.bbc.co.uk/bitesize/topics/zpxnyrd/articles/zxxyrd (if the link does not work, Google 'BBC KS1 What does a plant need to grow') Ask children to think, pair, share the names of as many seed producing plants as they can (give them the tip of thinking about fruits and trees) Explain independent work</p> <p>Main: Children to watch the following videos: 1st video - https://www.bbc.co.uk/bitesize/clips/zmkg9j6 (if the link does not work, Google 'BBC bitesize Explanation - Growing seeds') 2nd video - https://www.bbc.co.uk/programmes/p01191xb (if the link does not work, Google 'BBC science clips Healthy plant growth') Watch each video once, without children needing to answer questions on it and a second time with children needing to answer questions on it (When children are answering questions, pause the video at appropriate places to give them a chance to answer the questions) Explain to children that they will need to use some answers from the box more than once Children need to fill in the blanks in sentences to answer the questions e.g. Question: What are the children picking? Answer: The children are picking _____, Give lower ability children and those with large handwriting enlarged versions of the worksheets; give other children standard worksheet</p> <p>Plenary: Complete the quiz (need to scroll down the page to see it) at https://www.bbc.co.uk/bitesize/topics/zpxnyrd/articles/zxxyrd (if the link does not work, Google 'BBC KS1</p>	<p>Check videos open and play OK</p> <p>Questions</p> <p>Answer frames</p>	<p>MUST: understand that many plants grow from seeds</p> <p>SHOULD: answer questions on this process, with a smaller choice of answers per page</p> <p>COULD: as above, but with a greater choice of answers and on just one page</p>

		<p>What does a plant need to grow') Revise how seeds need air, warmth, sunlight, water and soil to grow well</p>		
2	<p>To be aware of the different methods by which plants disperse their seeds (45 mins)</p>	<p>Intro: Ask children to think, pair, share why plants grow fruit (to spread their seeds so that new plants will grow) Ask children to think about why it might be important for a plant to spread its seeds, and not just drop its seeds right where it is (because the seeds need space to grow and the existing plant would block out the sunlight and use up too much of the nutrients and the water near it) Ask children if they know of any other ways that plants spread their seeds Introduce the words 'disperse' and 'dispersal' and explain what they both mean Tell children that we will be watching some videos on seed dispersal and that they need to listen out for the different ways that different plants disperse their seeds Watch the videos on seed dispersal at https://www.bbc.co.uk/bitesize/topics/zgssgk7/articles/z28dpbk (if the link does not work, Google 'BBC Bitesize How do plants spread their seeds') https://www.bbc.co.uk/programmes/p0118vw6 (if the link does not work, Google 'BBC science clips seed dispersal') https://www.youtube.com/watch?v=06sbmWAZoys https://www.youtube.com/watch?v=OB0P3mx_lxY (if the link does not work, Google 'YouTube seed dispersal by explosion') Ask children to think, pair, share the different ways that seeds can be dispersed Talk about the features of each type of plant seeds e.g. dandelion seeds are light and shaped to catch the wind, coconuts float well and so on Model for children how to complete the first example on the worksheet and how to use the websites for the extension</p> <p>Main: Children to use the information from the videos to match the names of plants and their seeds and photos of them with a method of dispersal e.g. wind – dandelion – picture of a dandelion and its seeds Extension: children to research to find more information about, and examples of seed dispersal, at: https://www.sciencelearn.org.nz/resources/103-seed-dispersal https://www.kidsdiscover.com/parentresources/seed-dispersal/</p> <p>Plenary: Children to complete the game that teaches about seed dispersal at https://pbskids.org/plumlanding/games/seed_racer/index.html (if the link does not work, Google 'PBS seed racer plumb landing') Revise the different seed dispersal methods used by plants and why plants need to disperse their seeds, rather than just drop them where they are Children who got on to the extension to share some of what they learnt</p>	<p>Check videos open and plays OK and skip and / or close ads</p> <p>Computers / tablets (for extension)</p>	<p>MUST: understand that different plants use different methods of seed dispersal</p> <p>SHOULD: identify the method of dispersal that some specific plants use</p> <p>COULD: research additional examples of each type of seed dispersal</p>

3	<p>To understand the life cycle of a plant (20 mins)</p>	<p>Intro: Ask children to think, pair, share the life cycle of some of the animals whose life cycles they have learnt about previously Explain that all living things have a life cycle, and this includes plants Watch the 2nd video from the first lesson again at https://www.bbc.co.uk/programmes/p01191xb (if the link does not work, Google 'BBC science clips Healthy plant growth') which shows how a seed develops into a plant) Explain independent work, reading the text underneath each of the boxes that the children need to draw in</p> <p>Main: Children to draw pictures to go with the steps in the seed cycle Extension: Children to find out more information about seeds and the plant cycle in non-fiction books</p> <p>Plenary: Revise the steps in the plant life cycle Ask children who got on to the extension to share something they found out</p>	<p>Check video opens and plays OK</p> <p>Worksheets</p> <p>Non-fiction books on plants (for extension)</p>	<p>MUST: understand that plants develop from seeds</p> <p>SHOULD: represent the above process in pictures</p> <p>COULD: find out additional information about seeds and / or the life cycle of plants</p>
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To access the complete [Year 2 Plants planning](#), with all of the resources needed to teach each lesson, visit:

<http://www.saveteacherssundays.com/science/year-2/400/>

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