Year 2 Biological Science: Plant	s (How Plants Grow)	)	Unit 4
<ul> <li>Scientific Investigations:         <ul> <li>Observing Changes over Time</li> <li>Looking for Naturally- Occurring Patterns and Relationships</li> <li>Researching Using Secondary Sources</li> <li>Comparative and Fair Testing</li> </ul> </li> <li>Scientists:         <ul> <li>Jane Colden – botanist - lived in America hundreds of years ago. She was born in the 1720s.</li> </ul> </li> </ul>		<ul> <li>Scientific Skills Applied:</li> <li>ASK <ul> <li>To explore the world around them</li> <li>To find answers from books, photographs, videos (secondary sources)</li> <li>BREAKDOWN</li> <li>To carry out simple tests</li> <li>To use simple measurements</li> <li>To use simple equipment</li> <li>CAPTURE</li> <li>To compare using simple features</li> <li>To record what they notice in different ways</li> <li>To notice patterns and relationships</li> </ul> </li> <li>DESCRIBE <ul> <li>To talk about what they found out</li> <li>To talk about what they have seen</li> <li>To use simple scientific language</li> <li>To know there are different ways to answer</li> </ul> </li> </ul>	
Making links to learning and discuss the model (if needed)	What do you already know about plants pre assessment task?		
<ul> <li>Knowledge and skills through investigations</li> <li>Pupils should be taught to: <ul> <li>observe and describe how seeds and bulbs grow into mature plants</li> <li>find out and describe how plants need water, light, and a suitable temperature to grow and stay healthy.</li> </ul> </li> </ul>	Plants are living things and require things to grow. Identify things which are living, dead and things which have never been alive. Observe plants in the environment and identify features. Which plants do we eat? Identify and name plants we eat and which parts of the plant we eat. Observe further to locate where their condecare		<ul> <li>Knowledge:</li> <li>To identify and name 5 common plants eg daffodil/tulip/foxglove/snowdrop/poppy</li> <li>To know that plants require water, warmth, nutrien from soil and light to grow and that if they do not have one or more of these things, they may stop growing.</li> <li>To know that plants can: move, grow, react to their curroundings (appea), appear putrients, reproduced</li> </ul>

Observe fruits to locate where their seeds are.

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To know that plants can: move, grow, react to their surroundings (sense), absorb nutrients, reproduce. To know that many plants provide us with food by bearing fruits which carry their seeds.

<ul> <li>Notes and guidance (non-statutory) <ul> <li>Pupils should use the local environment throughout the year to observe how different plants grow.</li> <li>Pupils should be introduced to the requirements of plants for germination, growth, and survival, as well as to the processes of reproduction and growth in plants.</li> <li>Note: Seeds and bulbs need water to grow but most do not need light; seeds and bulbs have a store of food inside them.</li> </ul> </li> <li>Pupils might work scientifically by: <ul> <li>observing and recording, with some accuracy, the growth of a variety of plants as they change over time from a seed or bulb or observing similar plants at different stages of growth; setting UP a comparative test to show that plants need light and water to stay healthy.</li> </ul></li></ul>	What are the parts of common trees and plants? Label parts of a plant and tree and understand what each part does to help the plant to grow. Research the life cycle of a plant. How do plants grow? Plant a bulb or a seed. Record observations in a diary. Change variable when planting. Compare the growth of the plants. Form conclusions from observations. Record results for height using a bar chart.	<ul> <li>To understand that we eat many fruits that contain seeds, we also eat different parts of vegetable plants</li> <li>To know that we eat grains and cereals from plants too</li> <li>To understand that nuts and seeds are also edible.</li> <li>To name 5 parts of a plant/tree To understand that nuts and seeds are also edible. To name 5 parts of a plant/tree To understand that nuts and seeds are also edible. To name 5 parts of a plant/tree To understand that nuts and seeds are also edible. To name 5 parts of a plant/tree To understand that nuts and seeds are also edible. To name 5 parts of a plant/tree To understand that nuts and seeds are also edible. To name 5 parts of a plant/tree To seed, trunk or trunk branch, stem, bark, stalk, bud. Names of trees in the local area. Names of garden and wild flowering plants in the local area. Light, shade, sun, warm, cool, water, grow, healthy. Root vegetables carrots, potatoes, stem vegetables celery, spring onion, leafy vegetables cabbage, lettuce, flowering vegetables ;cauliflower, broccoli wheat, oats, sesame seeds, pumpkin seeds, peanuts</li></ul>
Application and Assessment Activity	https://www.educationquizzes.com/ks1/science/	

Subject Specific links –
 English: new vocabulary, explaining their work, describing images and processes.

- Maths: sorting activities and comparative language. Measuring using cm
- ICT: learning from activities and videos on IWB
- Personal Development learning how to look after plants and the link to environmental changes.
- SMSC learning how to look after plants and to respect nature.
- Cultural Capital -show an appreciation of where in the world some plants come from and different cultures eat different plants
- Careers farming, florist, tree surgeon, scientist, biologist,
- British Values developing self-esteem and pride in growing something
- Equality Promotion of both men and women as scientists.