## **Sholing Junior School - Science Topic: Plants** Year: 3 **Strand: Biology** What should I already know? Vocabulary absorb soak up or take in Which things are living and which are not. The part of a **stamen** that produces and releases the anther A variety of common wild and garden plants, including deciduous pollen and Parts that grow out from the tree trunk and have branches evergreen trees and how to identify them. leaves, flowers, or fruit growing on them The structure of common flowering plants, including trees A root shaped like an onion that grows into a **flower** bulb (including leaves, flowers, fruits, roots, bulbs, seeds, stem, trunks and branches) Seeds and bulbs grow into mature plants Plants need water, light and a suitable temperature to grow and

## What I will know by the end of the Unit

Different vegetation belts and climate zones around the world

**Plants** and animals depend on each other to survive

## I will be able to:

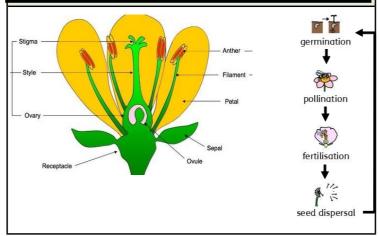
healthy.

- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers.
- 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.
- Investigate the way in which water is transported within plants.
- Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

## **INVESTIGATE!**

We will be introduced to the relationship between structure and function: the idea that every part has a job to do. We will explore questions that focus on the role of the roots and stem in nutrition and support, leaves for nutrition and flowers for reproduction.

We might work scientifically by: comparing the effect of different factors on plant growth, for example, the amount of light, the amount of fertiliser; discovering how seeds are formed by observing the different stages of plant life cycles over a period of time; looking for patterns in the structure of fruits that relate to how the seeds are dispersed. They might observe how water is transported in plants, for example, by putting cut, white carnations into coloured water and observing how water travels up the stem to the flowers.



| he Earth that are divided according to There are three main climate zones; rate and tropical.  hat is found in large numbers or it |
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| en   |
| en   |
| assas its laguas in the gutumm avery year  |
| oses its leaves in the autumn every year   |
| parated, or spread through a large area  |
|  |
| sh which has green <b>leaves</b> all the year  |
| here <b>pollen</b> meets the <b>ovule</b> to form a  |
| that is added to soil in order to make more successfully   |
| <b>plant</b> which is often brightly coloured the end of a <b>stem</b>   |
| ts which produce flowers   |
| hich grows on a <b>tree</b> or bush and which <b>ds</b> or a stone covered by a substance  |
| g that something does  |
| nd next to a house, with <b>flowers</b> ,<br>other <b>plants</b> , and often grass   |
| minates or if it is germinated, it starts to   |
| t suffering from any illness   |
| a tree or plant that are flat, thin, and<br>n  |
| changes that an animal or <b>plant</b> passes<br>n the beginning of its life until its death                                       |
| hing <b>matures</b> , it is fully developed  |
| hat help <b>plants</b> and animals to grow   |
|  |
| d or white parts which form part of the  |
| g that grows in the earth and has a <b>stem,</b> roots   |
| er produced by <b>flowers.</b> It <b>fertilises</b> other<br>ne same species so that they produce                                  |
| a plant or tree means to <b>fertilise</b> it with is often done by insects.  |
| a <b>plant</b> that grow under the ground  |
| ard part from which a new <b>plant</b> grows   |
| right part of a <b>plant</b> on which the <b>flowers</b><br>prow   |
| ne centre part of a <b>flower</b> which takes in   |
| vhich something is built or made   |
| f how hot or cold something is   |
| thing from one place to another  |
| that has a hard <b>trunk</b> , <b>branches</b> , and   |
| ain <b>stem</b> from which the <b>branches</b> grow  |
| s and flowers  |
| llants that live or grow in natural<br>s and are not looked after by people  |
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