Year 3 Summer

Term



Plants

Prior knowledge learned in year 2

observe and describe how seeds and bulbs grow into mature plants - find out and describe how plants need water, light and a suitable temperature to grow and stay healthy

National Curriculum for year 3

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

What you should already bnow... -Plants need a nur in order to grow, nutrients, light, the space -Plants begin life of do not need sunling own forms.

 -Plants need a number of different things in order to grow, including water and nutrients, light, the right temperature, space and time.

-Plants begin life as seeds or bulbs. Seeds do not need sunlight as they have their

Water and oxygen allow seeds and bulbs to germinate (start to grow).

 Plants have a life cycle, that includes the seed, seedling and flowering stages.

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-Flowers play an important role in the reproduction of plants.

-The male part of a flower is called a stamen – it is made up of a filament and an anther. The anther contains pollen.

-The female part of a flower is called a carpel. It is made of a stigma, a style and an ovary.

-When the male pollen lands on the female stigma pollination occurs.

-This process means that a seed is produced.

-Insects are drawn to flowers by bright petals. When they feed on the flower's nector they are dusted with pollen. They then spread this to other places when they leave.

Functions of Different Plant Parts

Root

-The roots grow into the ground. They are responsible for pulling water and minerals to the plant.

 They expand into the ground to widen the area they can find water. They also help to anchor the plant into the ground.



Leave

 -Leaves are responsible for catching sunlight. They also allow both air and water to enter the plant.

 -Leaves have veins inside them, to allow water and nutrients to flow. There are many different sizes & shapes of leaves, to fit the plant's needs.

Stem/Trunk

 The stem/trunk corries the water and nutrients up to the leaves.

-The stem also carries food from the leaves to the rest of the plant.

-Stems grow upwards, reaching up for the sun.

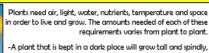
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Flowers

-Flowers are the parts of plants that are responsible for making both food and seeds.

-The petals of a flower attract insects for pollination. The flower has male and female parts, which work together to make seeds.

Requirements for Life



as it searches for light.

-A plant that is not watered will have a weak stem. Its leaves will dry up and eventually it will die.

 A plant that is not given enough space will have stunted growth, and may die if it cannot reach enough light.

-A seed will not germinate at all if the temperature is too cold.

pollination, seed formation and seed

Key texts

Foxton, All about plants

flowering plants, including dispersal

Key vocab

Reproduction, Nutrients, Transportation, Dispersal, Pollination, Flower, Air,

Scientists to consider

- Joseph Banks- Botanist
- Ahmed Mumin Warfa -Botanist

How is water transported in plants?

Describe what pollination means.

What is seed dispersal?

Can you describe the functions of parts of a plant?

Water Transport in Plants

Water is found in the soil by the roots.

The water is drawn up from the roots to the stem. The water travels up small tubes in the stem called xylem.

Water reaches the leaves and flowers, keeping them hydrated.

Water escapes from the plant as vapor (a gas) through tiny holes