



Jerry Clay Academy Subject Unit Overview



Subject: Science (Plants) Year Group: 2 Term: Spring / Summer

Core Learning of This Unit:

To know that plants require things such as water, warmth, nutrients from soil and light to grow. If they do not have one or more of these things, they may stop growing.

Plants can: move, grow, react to their surroundings (sense), absorb nutrients, reproduce

To know some plants provide us with food by bearing fruits which carry their seeds. We eat many fruits that contain seeds (including tomatoes!).

To know that we also eat different parts of vegetable plants: root vegetables (carrots, potatoes), stem vegetables (celery, spring onion), leafy vegetables (cabbage, lettuce), flowering vegetables (cauliflower, broccoli)

To know that we eat grains and cereals from plants too (wheat, oats). • Nuts and seeds are also sometimes edible (sesame seeds, pumpkin seeds, peanuts).

To know the common parts of trees and plants

To grow plants and scientifically observe and record data on this

Prior Learning:

From Year 1: Children should know the different parts of a plant and about fruit and vegetables.

- They should be able to identify common plants.
- Identify deciduous and evergreen trees.
- Describe basic structure of plants.



National Curriculum Statements:

Pupils should be taught to:

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.

Key Vocabulary:

- **sunlight**-the light that comes from the sun.
- **water**-a clear liquid without colour or taste.
- **temperature**- the measured amount of heat in a place.
- **nutrients**-any substance that plants or animals need in order to live and grow.
- **shoot**-grows upwards from the seed or plant to find sunlight.
- **germination**-the seed soaks up water, swells and the tiny new plant bursts out of its shell.
- **food store**-when a baby plant starts to grow, it uses the food stored inside the seed to help it to grow.
- **dissect**-to cut open something and look at its structure.
- **seed dispersal**-when the seed moves away from the parent plant.
- **life cycle**-the series of changes that a living thing goes through.

Significant People

- Nikolai Vavilov (1887–1943) was a Russian botanist and geneticist. He showed how and where crop plants evolved. He studied and improved wheat, corn, and other cereal crops.