



Jerry Clay Academy
Subject Knowledge Organiser

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:

- Crop- plants such as wheat and potatoes that are grown for food
- Deciduous- a tree that loses its leaves in the autumn every year
- Evergreen -a tree or bush which has green leaves all the year round
- Flower- the part of a plant which is often brightly coloured and grows at the end of a stem
- flowering trees or plants which produce flowers
- herb- a plant whose leaves are used in cooking to add flavour to food, or as a medicine
- plant -a living thing that grows in the earth and has a stem, leaves, and roots
- reproduce- when an animal or plant produces one or more individuals similar to itself
- roots - the parts of a plant that grow under the ground seed the small, hard part from which a new plant grows
- stem - the thin, upright part of a plant on which the flowers and leaves grow

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.