Year 3– Plants A (Biology)

Factual Knowledge

- I know plants are made up of different parts, which have different functions.
- I know a dissection is the method of separating something into its parts.
- I know the roots absorb water from the soil and hold the plant in place.
- I know the stem carries water to different parts of the plant. There are small tubes inside the stem that transport the water to different parts of a plant, such as to the leaves and flowers.
- I know the leaves absorb sunlight to make food for the plant.
- I know the flowers help the plant to reproduce and create new life.
- I know germination is the process of a seed breaking its coating and sending out its first leaves and roots. Seeds need water to germinate. As a seed absorbs water, the seed coating swells and breaks. The correct temperature is important for the growth of seedlings.
- I know pollination is the transfer of pollen from the male part of a flowering plant to the female part of a plant, so that the plant can reproduce. The pollen and the egg join to make a seed. The aim of pollination is to create offspring.
- I know the stamen is the male parts of a flowering plant. The pistil is the female parts of a flowering plant.
- I know seed dispersal is the movement of seeds away from the parent plant for the life-cycle process to begin again. The most common methods of seed dispersal are by wind, water, animals and explosion.
- I know the stages in a plant's life are called its life cycle. Some plants start as a seed, which germinates under the right conditions. A germinated seed grows roots and shoots, which then grow leaves. As plants grow, they produce flowers and can reproduce through pollination. •Once a seed is produced it can be dispersed to start the life cycle again.

Important vocabulary I will know

dissection		the method of separating something into its parts
water transportation		the movement of water from the roots, through the stem, to the leaves and flowers
seedling		a young plant grown from a seed that has not yet fully grown
seed coating		the layer of a seed which breaks when wet
germination		the process of a seed breaking its coating and sending out its first leaves and roots
stamen		the male parts of a flowering plant
pistil		the female parts of a flowering plant
pollination		the transfer of pollen from the male part of a plant to the female part of a plant
pollen		tiny grains made in the male part of a plant
pollinators		animals which are used by plants to transfer pollen

Scientific Enquiry– Observation over time

Enquiry question: Does the number of seeds within one plant pot affect the growth of the plants?

Working Scientifically

- Gather, record and classify data
- Make observations
- Ask questions
- Plan
- Answer questions and make conclusions



