



Plants (Biology)

Year 2

End Points:

- Know there are many different types of plants
- Seeds and bulbs grow into mature plants
- A seed can grow into a flowering plant
- When a seed germinates, it changes from a seed to a seedling
- Some plants create bulbs that live underground, and their leaves grow up through the soil
- Plants need light and water to grow
- Plants often grow well in the Spring when the temperatures get warmer and there is often rain
- Some plants (crops) are grown for food
- Crops are harvested, packaged and transported for people to buy and eat

This unit builds directly from the Year 1 unit 'Plants'. Children will look again at what plants are and what they need to grow. In this unit, children will look in more detail at seeds and bulbs. They will learn that germination is the process where a seed begins to grow and changes into a seedling. Children will spend some time comparing plants that receive light and water and those that don't. They will understand that healthy plants need light and water to grow. In this unit children will build on their understanding of plants as food from Year One and will look at how farmers grow plants as crops, which are then harvested and transported to shops. They will consider where the food we eat comes from. Finally, children will show what they have learned by explaining how bulbs and seeds work, using scientific drawing and/or diagrams in their writing to support their answer. This unit will provide foundational prior learning for the Year 3 Unit Plants.

Lesson Sequencing:

In lesson one, children will learn that there are many different kinds of plants and trees by exploring their school's surrounding area. In lesson two, children will learn about seeds and bulbs, and how they grow into mature plants. Lessons three and four will build upon this knowledge by looking at the conditions needed for plants to grow. Children will conduct a comparative test to investigate what they have learnt about plant

growth. In lesson five, children will learn that crops are grown and harvested for us to eat. In the assessment lesson, children will apply the knowledge learnt to explain how bulbs and seeds work.

Misconceptions:

- Seeds are not alive
- All plants start out as seeds
- Seeds and bulbs need sunlight to germinate

Working Scientifically criteria met in this unit:

- asking simple questions and recognising that they can be answered in different ways
- observing closely, using simple equipment
- performing simple tests
- identifying and classifying
- using their observations and ideas to suggest answers to questions
- gathering and recording data to help in answering questions