

# PLANTS - YEAR 2: PROGRESSION MAP



## National Curriculum Objectives

- 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

## Common misconceptions:

- Plants only grow in light
- Seeds are the same as bulbs
- Plants do not need air
- Bulbs are dead or just roots
- All plants grow at the same speed
- Bulbs are the same as seeds but bigger
- Plants only grow above ground

## Hinterland:

- Visiting a garden or allotment to see bulbs and seeds growing
- Planting bulbs in autumn and observing changes in spring
- Looking at food plants (onions, garlic, beans) and their parts
- Watching time-lapse videos of seed germination
- Exploring seed dispersal (wind, water, animals)
- Reading traditional stories that feature growing plants (e.g. Jack and the Beanstalk)

## Builds on:

- EYFS: Exploring the natural world; noticing seasonal changes.
- Y1 Plants: Identifying common plants and parts; observing plant growth over time.

## Lesson Titles:

1. What Are Seeds?
2. How Do Seeds Grow?
3. What Are Bulbs?
4. How Do Bulbs Grow?
5. What Do Seeds and Bulbs Need to Grow?
6. Where Do New Plants Come From?

## Scientific enquiry:

Lesson 1: Identifying and classifying seeds using observable features.  
Lesson 2: Performing a simple test to find out what seeds need to grow.  
Lesson 3: Identifying and classifying seeds and bulbs by their features.  
Lesson 4: Observing closely how a bulb changes over time.  
Lesson 5: Gathering and recording data to compare plant health.  
Lesson 6: Using observations and ideas to suggest answers about plant life cycles.

## Future learning:

- Year 3 Plants: Parts of plants, functions, life cycle and seed dispersal
- Upper KS2: Reproduction, adaptation and plant classification

## Coherence:

### English:

- Use of descriptive vocabulary (e.g. smooth, rough, hard, shiny)
- Using comparisons ("This seed is bigger than...")
- Sentence stems for scientific thinking ("I think this plant is sick because...")
- Speaking and writing explanations using key vocabulary (e.g. germinate, bulb, shoot)

### Maths:

- Measuring height, weight and length of seeds and bulbs
- Counting and comparing quantities (number of seeds, roots, shoots)
- Recording observations in tables and tally charts
- Using ordinal numbers to sequence plant growth stages

### Art:

- Drawing botanical illustrations of seeds, bulbs, and plants
- Observational drawing of textures and forms
- Exploring natural shapes and symmetry in plant parts

### Geography:

- Exploring where different plants grow and how they adapt to local environments
- Comparing seasonal changes and how they affect plant life

## Key vocabulary:

seed, bulb, germinate, sprout, root, shoot, leaf, grow, soil, warmth, temperature, water, light, food store, healthy, compare, observe

## Book Recommendations:

Zhi Grows a Plant