Science Curriculum – Cycle A

Lower Key Stage 2 – Summer 1 and 2

Theme – Plants (Biology)

Enquiry Question – What are the different parts of a plant for?

National Curriculum Coverage

Pupils should be taught to:
Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
Investigate the way in which water is transported within plants
Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

Key Scientists:	**Comparative Test** Which conditions help seeds germinate quicker? **Fair Test** Does the length of a carnation stem affect how long it takes for the food colouring to dye the petals?	**Observation over time** How do flowers in a vase change over time?	**Pattern Seeking** What colour flowers do pollinating insects prefer?	**Research** What are the different ways that seeds disperse?

Objective	Challenge	Working Scientifically	Vocabulary
• To know and explain the functions of the parts of a flowering plant - Roots (anchors and absorbs nutrients and water from soil) - Stem/trunk (supports and carries water and nutrients from roots) - Leaves (for nutrition) **NB: Chn do not need to understand how** - Flowers (reproduction) • To investigate the way in which water is transported within plants • To know the requirement of plants for life and growth	• To classify a range of common plants according to many criteria (environment found, size, climate required) • To look for patterns in the structure of fruits that relate to how the seeds are dispersed **or own challenges*	See separate objectives sheet.	Flowering plant, root, stem, leaves, flowers, anchors, support, attracts, absorb, air, sunlight, water, nutrients, soil, growth, transported, life cycle, petals, germination, pollination, seed formation, seed dispersal

- air, light, water, nutrients from soil, and room to grow • To explain how requirements for plant growth vary from plant to plant. - To know that some plants need different amounts of light and water - To know some plants need different nutrients from different types of soil • To know the stages of the life cycle of a flowering plant - germination, pollination, seed formation, seed dispersal - To observe plant life cycles throughout the year • To know the part that flowers play in the life cycle of flowering plants - pollination, seed formation and seed dispersal - To name some simple ways in which seeds are dispersed			