Alexander Hosea Curriculum Map – Year 2 **Subject: Science (Plants)**

Programme of Study Statements

- 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

light, shade, sun, warm, cool, water, grow, healthy
Leaf, flower, blossom, petal, fruit, berry, root, seed, trunk, branch, stem, bark, stalk, bud
Names of trees in the local area
Names of garden and wild flowering plants in the local area

Investigations and Skills for thinking like a Scientist





Sticky Knowledge:

- Plants grow from seeds/bulbs
- Plants need light, water and warmth to grow and survive
- Flowers make seeds to make more plants (reproduce)
- Plants are important
- We need plants to survive (to clean air, to eat)
- We can eat different parts of the plants (leaves, stems, roots, seeds, fruit)

Comparative Tests	**Identify & Classify**	**Observation over time**	**Pattern seeking**	**Research**
Do cress seeds grow quicker inside or outside?	How can we identify the trees that we observed on our tree hunt?	What happens to my bean after I have planted it?	Do bigger seeds grow into bigger plants?	How does a cactus survive in a desert with no water?

Prior Knowledge:

- Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees. (Y1 - Plants)
- Identify and describe the basic structure of a variety of common flowering plants, including trees. (Y1 - Plants)

Potential Evidence to support our Scientists:

Can describe how plants that they have grown from seeds and bulbs have developed over time

- Can identify plants that grew well in different conditions
- Can spot similarities and difference between bulbs and seeds
- Can nurture seeds and bulbs into mature plants identifying the different requirements of different plants

Big Question:

What should I do to grow a healthy plant?

Future Knowledge:

- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers. (Y3 - Plants)
- 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. (Y3 - Plants)
- Investigate the way in which water is transported within plants. (Y3 - Plants)
- Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. (Y3 - Plants)

Cultural Capital

Visits and visitors Redwood Lower Woods (Gloucestershire Wildlife Trust) Westonbirt Arboretum	**Experiences and events** Growing own vegetables in the school gardens Selling your own vegetables. Vegetable competition at summer fayre.	**Key texts** ***The Tin Forest*** *(Helen Ward)* ***Jack and the Beanstalk*** *(Richard Walker)* ***Ten Seeds*** *(Ruth Brown)* **A Seed Is Sleepy** (Dianna Aston)
Community events and links Summer Fayre	**Global issues** Deforestation Bee populations	**Famous people** Agnes Arber (Botanist) Alan Titchmarsh (Botanist & Gardener)
Life Skills Teamwork Problem Solving Resilience Making Links	Key places Lower Woods Wickwar Allotments School Garden	