



Shadsworth Junior School



Curriculum

Year 3 Scheme of Work

Term: Summer One

Topic: Science - Plants

Key Skills and Knowledge:

Plants and Animals

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.

Working Scientifically

Asking relevant questions and using different types of scientific enquiries to answer them. Setting up simple practical enquiries, comparative and fair tests.

Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers.

Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions. Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.

Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions. Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.

Reading and Writing Opportunities (Long and Short Activities)

Creative Ideas and Hooks

Information text – describing the functions of different parts of a plant.

Learning Challenge Question “What makes plants and flowers grow and flourish?”

Plant investigation write up with prediction, use of sub headings.

Plant some seeds and observe them over time. What would happen if they had no light, no soil, no water or no air?

Who can grow the tallest sunflower or bean plants?

Links to PSHCE, Equality and British Values Work

Mackenzie’s memorial garden in the school grounds (therapeutic and calming)

Gardening can bring everyone together, working together. All ages, all abilities, all genders and all races.

Protecting the environment, respecting the environment.

Key Vocabulary:

Resources Available / Visits/Visitors

Useful Websites:

Roots, stem, trunk, leaves, stigma, stamen and flowers/fruit.

Air, light, water, nutrients from soil, pollination, seed formation and seed dispersal.

Gardening equipment, trowel, soil and plant pots.

Seeds to be purchased from science budget: sunflower varieties or beans. Opportunities for learning outside the classroom.

https://www.youtube.com/watch?v=djPVgip_bdU- parts of a flower

Previous knowledge:

Identify and name plants, incl. deciduous and evergreen trees

basic structure of common plants

Observe and describe how seeds grow

Know plants need water, light and warmth to grow.