



Science

At St Alphege

At St Alphege Science is taught through practical, investigative activities to excite and inspire children. We ensure children have autonomy over their learning and encourage them to ask and answer their own questions through the use of scientific enquiry. We appreciate that exploration is a key element in the development of children therefore utilize our outdoor environments, urban forest school and local area. We aim for children to be equipped for their future learning journey, having built on the skills necessary to explore and discover the world around them.

Early Years

Science is underpinned in many areas of the Early Years Curriculum and covered daily through indirect and child initiated activities. By the end of reception pupils will be able to:



- Children follow instructions involving several ideas or actions. They answer 'how' and 'why' questions about their experiences and in response to stories or events.
- Children know the importance for good health of physical exercise, and a healthy diet, and talk about ways to keep healthy and safe. They manage their own basic hygiene and personal needs successfully, including dressing and going to the toilet

independently.

- They know about similarities and differences between themselves and others, and among families, communities and traditions.
- Children know about similarities and differences in relation to places, objects, materials and living things.
- They talk about the features of their own immediate environment and how environments might vary from one another.
- They make observations of animals and plants and explain why some things occur, and talk about changes.

Having secured these skills, children's knowledge and understanding will then be built upon in Key Stage One.



Key Stage 1

The national curriculum for science aims to ensure that all pupils:

- develop scientific knowledge and conceptual understanding through the specific disciplines of biology, chemistry and physics
- develop understanding of the nature, processes and methods of science through different types of science enquiries that help them to answer scientific questions about the world around them
- are equipped with the scientific knowledge required to understand the uses and implications of science, today and for the future



The units covered in Year 1 and 2 are plants, animals including humans, living things and their habitats and seasonal change. They are all underpinned by specific skills which are built upon. The skills are as follows:

- 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

