

Science

Learning for life, Loving God,

Ourselves and others

Valuing all of his Creation

Enable us to do our best

Intent

At St Margaret's, we recognise the importance of Science in everyday life and give it the prominence it deserves as a core subject. Our Science curriculum provides children with opportunities to develop their knowledge and understanding of the world, enquiry skills, the ability to evaluate evidence, and a natural curiosity and respect for living things and the environment.

Through high-quality teaching and learning, we aim to prepare children for life in an increasingly scientific and technological world. We seek to develop the knowledge, concepts, skills and attitudes that enable pupils to engage confidently in a wide range of scientific activities.

We ensure that all children:

- acquire secure scientific knowledge
- think and work scientifically
- develop curiosity and a desire to explore
- understand the relevance of science in everyday life
- meet the expectations of the national curriculum
- communicate their ideas and findings effectively
- develop safe and structured working practices

Implementation

How does the curriculum allow all children to achieve?

The Science curriculum allows all children to achieve by providing practical, engaging and creative learning experiences that support different learning styles and needs. Science is taught as a discrete core subject with meaningful links across the wider curriculum to help children make connections in their learning. Planning is carefully structured through a whole-school long-term plan, supported by the ASE PLAN matrices and Kent Scheme of Work, ensuring clear progression and consistency for all pupils. Inclusion is a key priority, and all children are given equal access to the Science curriculum in line with the school's mission statement and AEN policy. In the EYFS,

children learn through child-initiated play and exploration within a carefully planned environment, enabling all learners to access Science through hands-on experiences

How is prior knowledge revisited?

Prior knowledge is revisited through the structured progression built into the whole-school long-term plan and supported by the ASE PLAN matrices and Kent Scheme of Work. Teachers regularly evaluate lessons to inform future planning, allowing them to identify gaps in understanding and revisit key concepts where needed. Meaningful links across the wider curriculum also help children connect new learning to previously taught knowledge and experiences. In EYFS, children build on their understanding through repeated exploration and investigation of the world around them.

How is assessment used effectively?

Assessment in Science is ongoing and used to inform teaching and learning.

- Teachers regularly evaluate lessons to identify pupils' understanding and adapt future planning accordingly.
- End-of-topic assessments are used to measure children's knowledge and understanding of key concepts.
- Attainment is recorded using FFT to track progress over time, and parents receive a formal report at the end of the year.
- In EYFS, progress is monitored using the Early Excellence system to ensure children's development is accurately tracked.
- Classroom displays, including working walls and examples of pupils' work, also support assessment by making learning visible and celebrating progress.

How is cultural capital developed through the curriculum?

Cultural capital is developed through practical, real-life Science experiences that broaden children's understanding of the world around them. Lessons are designed to be engaging and relevant, with learning linked to real-life contexts wherever possible. Children are encouraged to explore, investigate and question the world through hands-on activities and scientific enquiry. In EYFS, children develop curiosity and understanding through experiences such as observing seasonal changes and exploring natural materials including sand, water and mud. Cross-curricular links also enrich learning by helping children apply their scientific knowledge in wider contexts.

Impact

As a result of our Science curriculum:

- Children enjoy Science and show enthusiasm for learning
- They develop a strong sense of identity as scientists
- They understand potential future careers in Science
- There is clear progression in knowledge and skills across the school

- Work demonstrates both content coverage and scientific enquiry skills
- Children become increasingly independent, selecting resources and leading investigations
- Standards in Science are strong at the end of each key stage
- Pupils are well prepared for the next stage of their education