



SUBJECT ON A PAGE FOR SCIENCE

Why we teach science

At Belmont, we aim to foster a lasting interest in science, alongside a genuine enjoyment and appreciation of its importance in the world around us. We build on children's natural curiosity and sense of wonder about the natural world, encouraging them to ask questions and explore how things work. Through a range of practical investigations and hands-on experiences, pupils develop a secure understanding of key scientific concepts and knowledge.

We place strong emphasis on developing scientific skills, including making predictions, taking accurate measurements and using appropriate scientific vocabulary to explain their thinking. Children are supported to work and think like scientists, developing confidence in observing, testing and drawing conclusions.

Our science curriculum also helps pupils recognise the relevance of science in their everyday lives—supporting their understanding of health and wellbeing, their responsibility towards the environment, and the role science plays in shaping the wider world.

Curriculum Overview

We believe that high-quality, engaging science lessons inspire children to think critically and develop their natural curiosity. Our science curriculum, supported by the Kapow Primary scheme, is designed to build a coherent and progressive understanding of scientific concepts across biology, chemistry and physics.

Kapow provides a clear progression of knowledge and skills, ensuring that pupils revisit and build upon prior learning. Children develop both substantive knowledge (scientific concepts, processes and systems) and disciplinary knowledge (how scientists work and think). Pupils are encouraged to reflect on their learning and understand clear intended outcomes. Opportunities for investigation, discussion, questioning and reflection are embedded throughout, allowing children to evaluate their own understanding and make meaningful connections.

Our curriculum equips pupils to think scientifically, ask questions, test ideas, analyse evidence, consider different perspectives and develop informed conclusions about the world around them.

Teaching and Learning

At Belmont, science is delivered through carefully structured learning sequences, drawing on the Kapow Primary scheme to ensure consistency, progression and full coverage of the National Curriculum. Lessons are designed to be engaging and enquiry-based, enabling pupils to explore scientific questions through a range of practical investigations, observations and a variety of sources such as data, models and real-life contexts.

Our approach includes:

- Well-sequenced lessons that build on prior knowledge
- Use of Kapow resources to support teacher subject knowledge and planning
- Opportunities for practical investigations, outdoor learning and enrichment activities
- Use of knowledge organisers to support key vocabulary and scientific concepts
- Retrieval practice to strengthen memory and understanding

Teachers adapt Kapow materials to meet the needs of their classes, ensuring all pupils can access the learning while maintaining high expectations.

Outcomes for pupils

Our science curriculum ensures clear progression in both knowledge and skills across all year groups. Through the use of Kapow, pupils develop a secure understanding of key scientific concepts and vocabulary across biology, chemistry and physics.

We measure impact in a range of ways, including:

- Ongoing formative assessment within lessons
- Retrieval activities to support long-term memory
- Pupil discussions and opportunities to 'talk their learning'
- End-of-unit quizzes that demonstrate understanding

We also celebrate science through learning showcases and opportunities for pupils to share their work with parents and the wider community. As a result, pupils leave Belmont as confident young scientists who can explain their understanding of scientific concepts, make connections and demonstrate curiosity about the world around them.