

Key Stage 3 – Science

Intent	Implementation	Impact
KS3 Science aims to inspire curiosity and build strong foundations in biology, chemistry and physics. Pupils develop investigative skills, critical thinking and problem-solving, while building resilience, collaboration and respect for evidence. The curriculum strengthens literacy, numeracy and personal development, linking learning to real-world issues and STEM careers. By the end of KS3, students are confident, curious learners, prepared for KS4 and able to apply science to life beyond the classroom.	Science at KS3 is taught through a balance of theory, practical work and real-world application, with regular retrieval practice and low-stakes assessment to secure learning. The curriculum is sequenced in a spiral structure, revisiting key concepts such as cells, particles and forces with increasing depth to ensure progression and preparation for GCSE. Teaching and learning approaches include practical investigations, modelling, discussion, digital tools and structured literacy strategies.	Evidence of learning is seen in pupils' ability to apply scientific knowledge in unfamiliar contexts, link ideas across biology, chemistry and physics, and participate in discussions, projects, and competitions. Success in KS3 Science looks like pupils confidently explaining concepts, carrying out investigations independently, making connections across topics, and demonstrating curiosity beyond the classroom. It also prepares them for KS4/GCSE study and fosters a lasting appreciation of science that informs daily life and potential STEM career pathways.

Assessment

Progress and attainment are measured through regular formative and summative assessments, including practical investigations, low-stakes quizzes, end-of-unit tests, and termly exams. Knowledge retention is monitored via retrieval practice, review tasks, and cumulative assessments, ensuring that concepts build over time.