

KS3 Science

Course Outline for Key Stage 3:

Students will be introduced to the lab and the techniques used by real scientists around the world. Students will study ideas around the three science disciplines; Biology, Chemistry, and Physics. These big ideas will be visited and re-visited across KS3 to enable students to build on their knowledge and expand their understanding.

In the context of the science disciplines, students will develop their scientific skills in three key categories; scientific literacy, scientific numeracy, and scientific enquiry. In developing these skills, KS3 Science students will develop the ability to plan, execute, and evaluate experiments. Students will also develop their skills in analysis and logical thinking.

From the start of year 7, students will be placed in groups according to their ability; this enables the classroom teacher to best support your child to receive the best possible support from both their teacher and their peers. There is opportunity for movement between groups where appropriate.

In year 9, students continue to develop their scientific skills with the most challenging KS3 topics as the framework. We push our KS3 students to develop the skills of scientific literacy, numeracy, and enquiry to a GCSE standard. This ensures students are prepared for GCSE learning and helps staff to accurately assess their ability and subsequent GCSE groups. Eligibility for Separate Science GCSE is also determined during the final year of KS3.

Across the three sciences, the following big ideas will be explored:

Biology	Organisms	Ecosystems	Genetics	
Chemistry	Matter	Reactions	Earth	
Physics	Forces	Electromagnets	Energy	Waves

Additional Learning:

There are many resources available online to support your child's learning. Using documentaries such as those narrated by Sir David Attenborough, BBC Bitesize KS3, and many others available on Netflix, Prime, YouTube, and other streaming services.

Points of contact:

Your child's Science teacher

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