

KS4 Science (Trilogy)

As a department, we have chosen the Trilogy Science route as each specialism is able to be taught by an individual, specialist teacher, this exposes the students to a range of teaching styles and the passionate delivery from a subject specialist. This allows the curriculum delivery model to mirror that of the Separate Sciences.

Building on fundamental ideas, met at KS3. the GCSE Combined Science curriculum is designed to provide students with a broad understanding of the fundamental principles of biology, chemistry, and physics. This integrated approach to science enables students to develop a comprehensive understanding of the natural world and provides them with the skills necessary to investigate and solve problems in a wide range of scientific and technical fields.

The study of Trilogy Science aims to develop scientific skills, including the ability to design and conduct experiments, collect and analyse data, and communicate scientific ideas effectively. These skills are essential for a wide range of careers, including medicine, engineering, and scientific research.

In addition, the curriculum provides students with an understanding of the key concepts and principles of biology, chemistry, and physics. This understanding enables students to apply their knowledge to real-world situations and to appreciate the interconnectedness of the natural world.

Overall, the GCSE Combined Science curriculum is designed to equip students with the knowledge, skills, and understanding they need to succeed in further study and in a wide range of careers, as well as to develop a lifelong interest in science and the natural world. By studying a combination of biology, chemistry, and physics, students can understand the complexity of the natural world and contribute to solving the challenges we face today and in the future.

Pedagogy within the classroom	Links to School Improvement Plan
High expectations of all students regarding behaviour for learning and	Increase the use of low stakes assessments, revision tools and consolidation resources so
outcomes.	that students increase in confidence and remember the content they have been taught in
Pace - Every lesson matters. Lessons are well planned and purposeful. "Do	the longer term.
now" activities will be followed by brisk and timed activities.	Ensure that incisive feedback is in place and that pupils are given opportunities to respond to
Challenge - All students are challenged in order for them to make the best	it so that students learn from mistakes, close gaps in their learning and ultimately take more
possible progress from their individual starting points.	responsibility for their own progress.
Questioning will be effective in developing student knowledge and	Literacy - Promote a passion for reading and a thirst for knowledge. Any gaps in reading to be
understanding, assessing progress and informing teacher planning.	addressed rapidly.
Progression - All learning builds towards an end point. Learners are being	
prepared for their next stage of education, training or employment at each	
stage of their learning.	
Skill Progression	SEN
Students build on prior knowledge and skills to help them prepare for the next stage of their education.	Working to increase our own knowledge of different areas of SEN and how to differentiate appropriately.
Skills are consolidated from one year to the next, providing the foundation	Understanding the SEN needs of all students on the SEN register in the class.
for increasing challenge.	Being flexible and adaptable in teaching approaches to meet the needs of all students, not
Work given to students to be more demanding and to match the aims of the	just those with no SEN.
ambitious curriculum.	Not seeing the "label" but seeing the child.
	Having as high expectations of lower-ability as we do for the highest; recognising that these
	students may need even more knowledge to plug gaps in their learning than their peers, not
	less.