



Science Curriculum Key Information

Subject	Science
Exam Board Followed at KS4	AQA – Separate Science, Combined Science & Entry Level Science
Final Assessment Method at KS4	6 x Science Papers – grade awarding from 100% final assessment at GCSE. Length of exams are as follows: Combined Science – 1hour15mins, Separate Science – 1hour45mins
What are the core concepts in this subject?	Cells, Particles, Atoms & Elements, Forces, Energy, Interdependence, Practical Skills
How is the curriculum in this subject designed to allow pupils to know more, remember more and do more over time?	The six 'core concepts' in Science are constantly revisited through our 5-year curriculum journey. Students are constantly building on prior knowledge embedded in each topic they study. Students have a period of assessment in every lesson to allow teachers to address misconceptions, enabling them to act swiftly and teaching this concept in a new way or in a more inclusive way such as chunking this into smaller sections. Where the six core concepts are re-visited at the start of key topics and these skills developed and structured through their Science at Loreto. At KS4, we will slowly build in exam style questions for students to apply their classroom learning to exam technique.
How does the curriculum in this subject area prepare students to develop skills for life and prepare them for the world of work?	Communication, team work and problem solving are key skills for all Scientists (of any age!) to develop and show in the varying disciplines and demands of Science. We encourage the students to practice identifying these skills and allow them time and space in which to develop these further in their Science lessons. Practical opportunities in Science allow us to pose the big problems and students gain a lot of fulfilment in using their problem-solving skills to find their Scientific reasoning to a problem. CEIAG is woven through our curriculum and opportunities for student leadership development is apparent in their desire to work within the department as STEM Prefects and support Science events in their leadership roles.
Where can parents and carers find out more?	Your child has access to our Loreto Learning Portal (via the school website) to find a rich offering of audio lessons (following our curriculum maps), our



knowledge organisers and revision resources and topic lists for Big Tests.

Students in KS4 are encouraged to visit the AQA Website for the full specification for the pathways offered, including assessment or practice resources and mark schemes.

[AQA](#) | [Subjects](#) | [Science](#) | [GCSE](#)

We also use an online platform for setting homework and independent revision called 'Kerboodle' which students will have a login to. This provides homes with all the textbooks and resources we could use in lessons.