



Applied Science

Y12 Applied Science

Studying this qualification will enable students to develop their knowledge and understanding of scientific principles, as well as those scientific practical skills recognised by higher education institutions and employers to be most important. This qualification also offers students an opportunity to develop transferable skills such as problem-solving, research and communication as part of their applied learning. Students will cover topics such as: scientific principles associated with the application of biology, chemistry and



physics, experimental and practical techniques associated with applied science, the roles and skills of scientists, and the public and media perception of science. In year 12 students will specifically learn about the fundamentals in Biology, Chemistry and Physics. They will also complete a written examination with a focus on “Science in the Modern World” and will engage with a key set of required practicals over the year.

Y13 Applied Science

What are the HW Expectations?

Year 12 homework will vary between practice examination questions and revision for the Unit 1 module (content). They will also be set regular research tasks in term 2 for their Unit 3 module which has an examination in January. They will be expected to complete their own independent study alongside this and this will be regularly checked in lessons through low stakes testing on current knowledge and on previous knowledge.

Year 13 homework will vary between learning new content they have covered in lessons which will be tested through regular low stakes quizzing and practicing examination questions.

How will I be assessed in year 12?

Unit 1 is divided into Biology, Chemistry and Physics. Students will complete end of topic tests on this content unit regularly throughout the year. They will sit a formal examination in June of year 12.



Unit 2 is a continuous assessment examination and students will complete the practicals for this in lesson and teachers will internally mark this.

Unit 3 has an examination in January and students will complete past papers on this to prepare them for the examination which teachers will mark. Their actual examination in January will be marked externally by the examination board.

How will I be assessed in year 13?

Students will sit end of topic milestones throughout the year. They will also complete PPE papers at two separate points in the year to test everything they have learnt in Y12 and Y13 up until that point. All of these milestones and Pre Public Examinations will be marked by teachers, and gaps will be bridged before they improve these assessments using teacher feedback. Students will always self assess their application tasks in lessons so they have instant feedback on their current understanding and knowledge of new concepts.

What equipment do I need to be successful?

Students need to ensure they have their own revision folder with a section for each subject - Biology, Chemistry and Physics.

What other opportunities exist outside the classroom?

Students may have the opportunity to attend a Science day trip related to their course or future careers, if and when the universities run these.

