Subject Area: COMBINED SCIENCE
Syllabus Code: Trilogy 8464

The Combined Science course is divided into an even number of Biology, Chemistry and Physics units and is delivered to students through 5 hours of teaching per week, taught by subject specialist teachers. The Combined Science course is worth two GCSEs taught over Year 10 and Year 11.

In May/June 2022 students will sit 6, 1 hour 15 minute exams, where they will be assessed on all of their learning from the two year course. Pupils may be entered for Higher or Foundation tier. The Higher paper allows pupils to achieve grades 9 to 4, the Foundation paper allows pupils to achieve grades 5 to 1.

Students will participate in 16 pre-set practicals over the course of two years. Examination questions will be based upon the skills and knowledge gained during the practicals as well as the content delivered during lessons.

SUBJECT	TOPICS COVERED
Biology	1. Cell biology 2. Organisation 3. Infection and response 4. Bioenergetics 5. Homeostasis and response 6. Inheritance, variation and evolution 7. Ecology
Chemistry	8. Atomic structure and the periodic table 9. Bonding, structure, and the properties of matter 10. Quantitative chemistry 11. Chemical changes 12. Energy changes 13. The rate and extent of chemical change 14. Organic chemistry 15. Chemical analysis 16. Chemistry of the atmosphere 17. Using resources
Physics	18. Energy 19. Electricity 20. Particle model of matter 21. Atomic structure 22. Forces 23. Waves 24. Magnetism and electromagnetism

Subject Area: TRIPLE SCIENCE (3 GCSEs)
Syllabus Code: Biology 8461/ Chemistry: 8462/ Physics 8463

The Triple Sciences course is divided into an even number of Biology, Chemistry and Physics units and will be delivered to students through 7.5 hours of teaching per week, by subject specialist teachers. Students will gain three GCSE certificates; GCSE Biology, GCSE Chemistry and GCSE Physics. Students study the same topics as the Combined Science GCSE but the content in each topic is extended to a deeper level.

In May/June 2022 students will sit 2, 1 hour 45 minute exams for each subject, where they will be assessed on all of their learning. Pupils may be entered for Higher or Foundation tier. The Higher paper allows pupils to achieve grades 9 to 4, the Foundation paper allows pupils to achieve grades 5 to 1.

Students will participate in 8 pre-set practicals over the course of two years for each subject. Examination questions will be based upon the skills and knowledge gained during the practicals as well as the content delivered during lessons.

SUBJECT	TOPICS COVERED
Biology	1. Cell biology 2. Organisation 3. Infection and response 4. Bioenergetics 5. Homeostasis and response 6. Inheritance, variation and evolution 7. Ecology
Chemistry	1. Atomic structure and the periodic table 2. Bonding, structure, and the properties of matter 3. Quantitative chemistry 4. Chemical changes 5. Energy changes 6. The rate and extent of chemical change 7. Organic chemistry 8. Chemical analysis 9. Chemistry of the atmosphere 10. Using resources
Physics	1. Forces 2. Energy 3. Waves 4. Electricity 5. Magnetism and electromagnetism 6. Particle model of matter 7. Atomic structure 8. Space physics