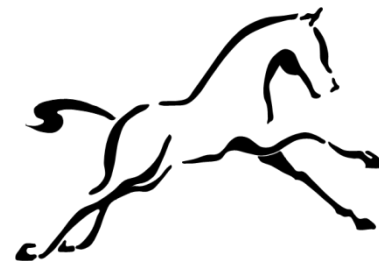


Science at Key Stage 4

Year 10 and Year 11



Science at the Ridgeway School inspires student's curiosity of the world around them. Students take observations from both within and beyond the laboratory and link these to scientific ideas. They learn the role of evidence in developing knowledge and understanding in science, and how these developments affect our lives and those of future generations.

Year 10

All students study **OCR Gateway Suite Core Science or Triple Science**. Both courses commence in term 6 of year 9 and the first piece of coursework for GCSE Core Science or GCSE Biology is completed and marked by the end of year 9.

Biology, Physics and Chemistry are taught discretely by specialist teachers. Topics cover all the major aspects of Biology, Physics and Chemistry at this level under the headings listed below.

B1 Understanding ourselves

B2 Understanding the Environment

C1 Carbon Chemistry

C2 Rocks and Metals

P1 Energy for the home

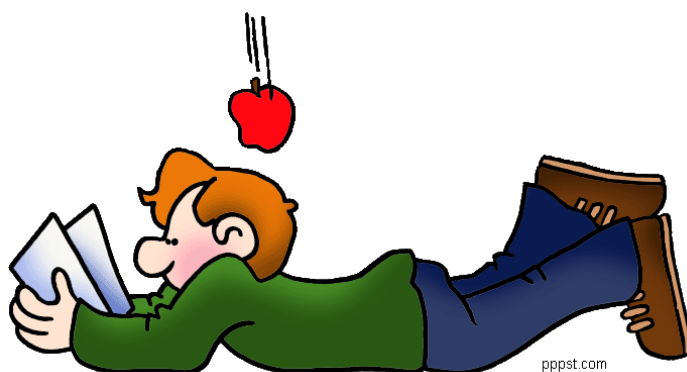
P2 Living for the future

If you wish to have more details on the specification they can be found on the OCR website www.ocr.org.uk

The Course codes can also be found on the table below to help you with this.

Year 11

Students either continue with Triple Science or follow one of 3 pathways depending on their level of achievement and predicted grade.



OCR Gateway Suite Additional Science - Students who wish to study A level Sciences in Biology, Chemistry or Physics must study Additional Science GCSE or Triple Science.

Additional Science

B3 Living and Growing

B4 It's a green world

C3 The Periodic Table

C4 Chemical Economics

P3 Forces for Transport

P4 Radiation for Life

OCR Gateway Suite Additional Science. Students who wish to study A level Sciences in Biology, Chemistry or Physics must study Additional Science GCSE or Triple Science

Triple Science includes all the above units from Core and Additional Science as well as

B5 The living body

B6 Beyond the microscope

C5 How much?

C6 Chemistry out there

P5 Space for reflection

P6 Electricity for gadgets

OCR 21st Century Applied Science – this is aimed at our borderline students. There is a higher element of coursework and all three areas of the subject are study with a greater emphasis on the application of science in Industry and the world around us. The course is divided into distinct modules:

Life Care

Agriculture and Food

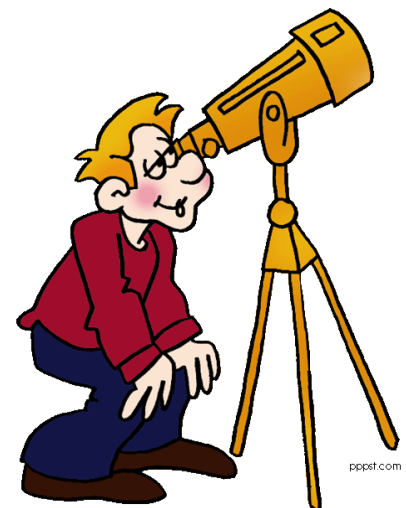
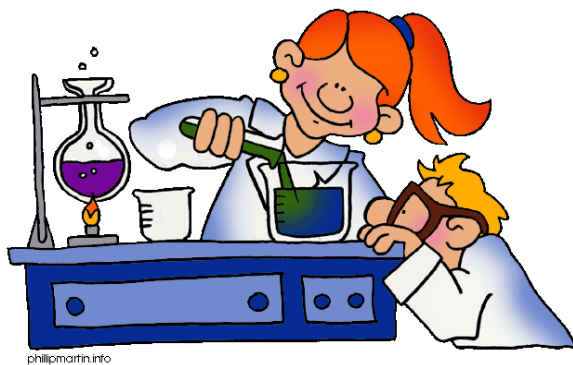
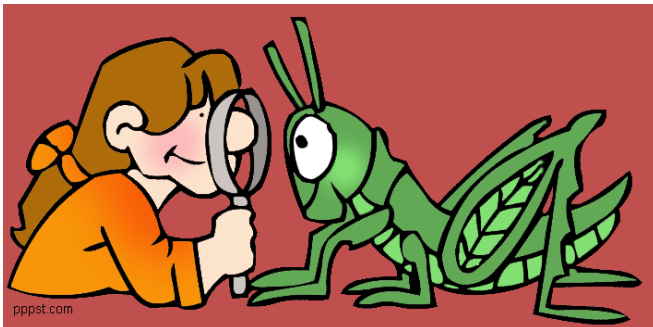
Scientific Detection

Materials and their Performance

Any 3 of the above modules are studied and examined over the course and overall contribute 50% towards the final mark.

The final 50% of the course is examined through the production of a work related portfolio. The portfolio includes a report of how science impacts careers, a report based on a practical investigation upon how choices are made to determine the most suitable apparatus or procedures to use in laboratories or the workplace and reports on practical work throughout the course. This is an interesting course and highlights the importance of science within the work place.

Edexcel BTEC First in Applied Sciences - This is aimed at students who are unlikely to achieve their target grade and find it difficult to achieve what they are capable of through examinations. Students must attend and complete all assignments to achieve a Pass. Failure to complete an assignment results in no award being given – this really is all or nothing! Topics cover aspects of Biological Sciences, Chemical Sciences and Physical Sciences studied through work based scenarios! So far we have only had success at BTEC!



The exams and course work for all of Key Stage 4 are as outlined in the table below:

Subject	Modules tested	When Tested	Coursework	Possible Grades
Biology	B1,B2 B3 B4,B5,B6	June year 10 June Year 11	Science in the News and I can do tasks or Data Task and Research task	A* -D
Physics	P1,P2,P3 P4,P5,P6	June year 10 June Year 11	Science in the News and I can do tasks or Data Task and Research task	A* -D
Chemistry	C1,C2,C3 C4,C5,C6	June year 10 June Year 11	Science in the News and I can do tasks or Data Task and Research task	A*-D
Core Science	B1,C1,P1 B2,C2,P2	Jan Year 10 June Year 10	Science in the News and I can do tasks	A* -D Higher C-G Foundation
Additional Science	B3,C3,P3 B4,C4,P4	Jan Year 11 June Year 11	Data Task and Research task	A* -D Higher C- G Foundation
Applied Science				A* -D Higher C- G Foundation
BTEC in Applied Sciences	Continuous assessment of all assignments	Completion by June Year 11	Whole course	Pass = CC Merit= BB Distinction =AA