



Separate Sciences

Some learners will be able to have the opportunity to study the Separate Sciences in the Twenty First Century Science suite.

These learners will be **selected** for top sets using prior attainment at a consistent level 7 or high level 6. Two hours of **extended study time** will be used to support the delivery of all three subjects. This allows four hours per subject.

Year 10

The content is basically the same as Core Science but the assessment is slightly different as they will have separate Biology, Chemistry and Physics exams in January.

Year 11

Students will complete the modules from the Additional Science course which are examined in three separate subject exams. In each subject this is combined with a 60 minute exam in based on module 7 and pre release material. The Skills assessment is either a case study + data analysis or a full practical investigation.

Students will not get a grade at the end of year 10. They will achieve three separate grades in Biology, Chemistry and Physics.



Any queries contact:
Mrs H Stones
Head of Science



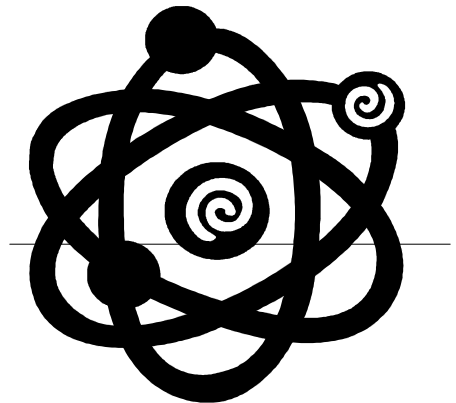
Why Twenty First Century Science?

- ◆ OCR Twenty First Century Science is a fully piloted course with excellent feedback from other schools.
- ◆ It is a modern, practical and relevant course with accessible scientific issues to motivate all learners
- ◆ With various pathways in yr 11 it is truly a course for all. Our positive experience of Science GNVQ and Applied Science led us to look for a vocational pathway for foundation level students.
- ◆ The opportunity to link Science with industry and 'real life' will benefit all learners.
- ◆ The yr 11 Additional Science course provides an academic route which can still lead on to A ' levels. There is also natural progression to more vocational courses from the Applied course.
- ◆ Gifted Scientists can extend their knowledge with the Separate Science course and can further this at A'level.
- ◆ There are different styles of assessment suiting all types of learner



Great Sankey High School

Key Stage 4 Science Curriculum





Key Stage 4 Science is compulsory.

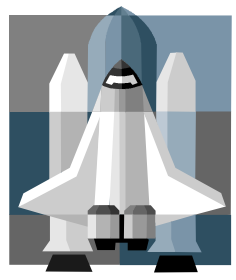
The philosophy of the Science department at Great Sankey High School remains the same as students move into KS4:-

To provide our learners with the opportunity to build on their natural curiosity for the world around us through scientific enquiry, debate and experimentation.

To provide a natural basis to show advancement through Science and engineering to benefit the global community.

To provide all learners with an appropriate and relevant experience of Science in a modern scientific environment.

To promote scientific aspirations and citizenship for the benefit of society in the future



We believe that our choice of OCR Twenty First Century Science GCSE course fulfils this philosophy.

OCR Twenty First Century Science

We believe this course meets the diversity of students needs and aspirations. It offers Science for citizens and Science for scientists.

Yr 10 course

Core Science

All learners in yr 10 will follow the same Science course at Higher or Foundation level (*except those in top sets —see Separate Science course later*) Learners will attain a GCSE grade in yr 10.

There are **nine** teaching modules:-

Biology

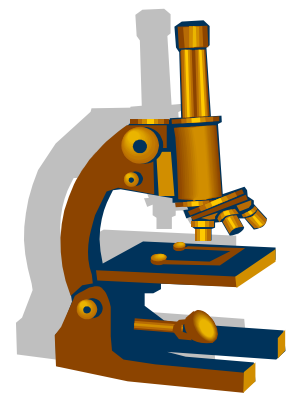
- B1 You and your Genes
- B2 Keeping Healthy
- B3 Life on Earth

Chemistry

- C1 Air Quality
- C2 Material Choices
- C3 Food Matters

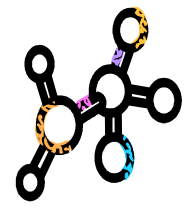
Physics

- P1 The Earth in the Universe
- P2 Radiation and Life
- P3 Radioactive Materials



Assessment

There is **one 40 minute exam** (B1,C1& P1) in January of yr 10. The other 2 and 3 modules are examined in **two 40 minute exams** in June of yr 10. There is also a **45 minute exam** in June based on pre-release materials. Learners also carry out a topical **Case study** and a **Data analysis** task.



Yr 11 Pathways

Yr 10 exam results will help us to select appropriate pathways for all learners in yr 11

Additional Science

This is a concept led course for learners who studied the **Higher level** Core Science in yr 10. This course extends scientific explanations and gives learners an insight into how scientists help to develop a deeper understanding of ourselves and the world around us.

Again, there are **nine** teaching modules examined as before in Jan and June. There is also a full investigation and another exam in June based on pre-release material. One grade in Additional Science will be attained at the end of yr 11.

Additional Applied Science

This course will be followed by learners who studied the **Foundation level** Core Science in yr 10.

It is designed to promote Science through work related concepts making it more relevant and accessible.

There are three short exams in June based on three modules (ie Life Care, Forensic Science and Materials & performance) Skills assessment is a portfolio based on simple practical procedures and suitability tests. A work related report is also completed. A grade in Additional Applied Science is attained at the end of yr 11.