



SWANMORE

— SCIENCE —

How is my child assessed?

We offer two exam pathways at Swanmore. GCSE *Combined Science: Trilogy*, which is a double GCSE, and *Separate Sciences* which is a separate GCSE in *Biology, Chemistry* and *Physics*. All pupils receive the same teaching and opportunity to cover content regardless of their final pathway. As a department we have an ethos of “teaching to the top” – all pupils experience the full breadth of separate science in their day-to-day learning.

For mock one and two, all pupils sit papers that reflect the Trilogy award. Pupils who attain an 8-7 or higher in mock two are able to sit separate science papers for mock three. They must achieve a minimum of three grade 7s to continue on this pathway. Pupils who attain a 7-7 in Trilogy in mock three are then offered the opportunity to sit separate science papers for mock four.

Intervention

Your child’s timetable will show ten lessons of science across a fortnight – three lessons each of Biology, Chemistry and Physics, and one extra – *intervention*. Every fortnight, your child will be given a small, targeted section of one of the sciences to revise as Independent Learning. During the intervention lesson, your child will complete past exam questions on the topic of their revision. They will self assess their work, with the support of a science teacher. They will learn the skills and techniques of fully answering exam questions and have the opportunity to reflect upon the revision techniques they have trialed.

Course Content:

Below are the topics assessed for GCSE Combined Science (Trilogy) and GCSE Biology, Chemistry and Physics (separate sciences). Topics are assessed to a greater depth for separate science. This is not the physical order of teaching – more information on this can be found on the college website or our Google Drive.

Biology - Paper 1

Cell Biology
Organisation
Infection and Response
Bioenergetics

Chemistry - Paper 1

Atomic Structure and the Periodic Table
Bonding, Structure and the Properties of Matter
Quantitative Chemistry
Energy Changes

Physics - Paper 1

Energy
Electricity
Particle Model of Matter
Atomic Structure

Biology - Paper 2

Homeostasis and Response
Inheritance, Variation and Evolution
Ecology

Chemistry - Paper 2

The Rate and Extent of Chemical Change
Organic Chemistry
Chemical Analysis
Chemistry of the Atmosphere

Physics - Paper 2

Forces
Waves
Magnetism and Electromagnetism
Space Physics (Separate Physics Only)



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Revision Resources

- **Oxford University Press Biology, Chemistry and Physics Revision Guides** – available through the college website
- **Educake** – low stakes testing – pupils can set their own quizzes from a selection of thousands of AQA specific questions
- **Seneca** – free “smart” revision website – AQA specific, and it will repeat content in a different format if a question is answered wrong
- **Cognito (YouTube)** – revision channel on YouTube – excellent for creating mind maps and flashcards
- **BBC Bitesize** – information displayed in an easy to use format and includes quizzes at the end of each topic.
- **Focuslearning** - virtual versions of demonstrations and the Required Practical elements of the Trilogy and Separate Science syllabus.

Google Drive



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Scan the QR Code to visit the Swanmore Science Google Drive.

Here you can find more information, including the GCSE Specifications, access to FocusLearning and other revision resources.