



OVERVIEW

Students follow the AQA GCSE Combined Science course and continue to build on the knowledge and understanding gained from Year 10. Lessons include regular retrieval practice and past paper questions across current and past topics to build up recall and application skills in readiness for their exams. Students continue to study topics across biology, chemistry and physics with a mixture of theory and practical work. Students are taught by two teachers, each taking 5 lessons a fortnight.

Aut

Chemistry

C9 Atmosphere

Composition of Earth's atmosphere, Greenhouse gases and climate change, Atmospheric pollutants

C10 Using Resources

Sustainable development, Potable water, Extracting metals, Life Cycle Assessment

Chemistry

C7 Organic Chemistry

Crude oil and hydrocarbons, Fractional Distillation, Cracking

C8 Chemical Analysis

Chromatography, Purity, Gas tests

Physics

P6 Waves

Wave features and calculations, measuring waves investigation, Electromagnetic Spectrum, Infrared investigation

P7 Magnetism

Magnetic fields, Motor effect, Electric motors

Assessment:

End of topic test for each unit.

**Mock 1 exams –
3 x Paper 1**

Spr

Biology

B6 Inheritance

Genes, DNA, Inheritance, Inherited Diseases, Genetic Diagrams, Theory of Evolution, evidence of evolution, fossils

Biology

B5 Homeostasis

Nervous system, Reflexes investigation, Endocrine system, diabetes, menstrual cycle, artificial control of fertility

Physics

P5 Forces

Contact and Non-contact forces, Gravity and Weight, Resultant Forces, Hooke's Law, Speed/Time graphs, Distance/time graphs, speed calculations, acceleration, stopping distance

Assessment:

End of topic test for each unit.

**Mock 2 exams –
3 x Paper 2**

Sum

Revision and Exam Preparation

The lead up to the exams will be spent consolidating the curriculum and making sure that students have the required knowledge and skills in Science. A range of resources and techniques will be shared such as using mindmaps, flash cards, past exam questions, revision guides, videos and quizzes. As well as reviewing all knowledge and skills there will be a focus on exam technique.

Assessment:

GCSE Exams

Students will sit 2 papers for each discipline (6 papers in total)

Useful resources for supporting your child at home:

- CGP Combined Science Revision Guide (provided)
- BBC Bitesize revision pages
- Youtube: Cognito Science lessons

Homework:

Weekly exam question and Sparx quiz must be completed