



**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.

**Autumn**

**Chemistry**

*C7 Organic Chemistry*

Crude oil and hydrocarbons, Fractional Distillation, Cracking

*C8 Chemical Analysis*

Chromatography, Purity, Gas tests

*C9 Atmosphere*

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

**Chemistry**

*C10 Using Resources*

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

**Biology**

*B5 Homeostasis*

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

**Physics**

*P6 Waves*

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

**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

**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

*P7 Magnetism*

Magnetic fields, Motor effect, Electric motors

Revision for mock paper 2

**Assessment:**

*End of topic test for each unit.*

Mock 2 exams –  
3 x Paper 2

**Summer**

**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