Students follow the AQA GCSE 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 three teachers, each taking 5 lessons a fortnight.

Aut

Biology

B5 Homeostasis
Nervous system, Reflexes
investigation, Brain, Eyes
and Vision,
Thermoregulation,
Endocrine system,
diabetes, menstrual
cycle, artificial control of
fertility, plant hormones

Chemistry

C7 Organic Chemistry
Crude oil and
hydrocarbons, Fractional
Distillation, Cracking,
reactions of alkenes,
alcohols, carboxylic acids,
synthetic polymers,
condensation
polymerisation
C8 Chemical Analysis
Chromatography, Purity,
Gas tests, Identification of
ions, Flame emission
spectroscopy

Physics

P5 Forces
Contact & Non-contact
forces, Resultant Forces,
Hooke's Law, moments,
gears & levers, pressure,
Velocity/Distance Time
graphs, acceleration,
stopping distance, car
safety
P6 Waves
Wave features &

Wave features & calculations, measuring waves, reflection, sound and seismic waves, EM

Assessment:

End of topic test for each unit.

Mock 1 exams – 3 x Paper 1

Biology

B6 Inheritance
Genes, DNA, Inheritance,
Inherited Diseases,
Genetic Diagrams, Protein
synthesis, the work of
Mendel, Darwin and
Wallace, Theory of
Evolution, evidence of
evolution, fossils, cloning

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, Corrosion,
Use of alloys, Ceramics,
polymers, composites

Physics

P7 Magnetism
Magnetic fields, Motor
effect, Electric motors,
speakers and
microphones, transformers
& the National Grid

P8 Space
Solar system, Life cycle of stars, orbital motion and satellites, red shift

Assessment:

End of topic test for each unit.

Mock 2 exams – 3 x Paper 2

Sun

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 area (6 papers in total)

Useful resources for supporting your child at home:

- CGP Science Revision Guide x 3 (provided)
- BBC Bitesize revision pages
- Youtube: Cognito Science lessons

Homework:

Weekly exam question and Sparx Science must be completed

