

# Science

Head of Department:  
Dr C Wilcox

## CORE

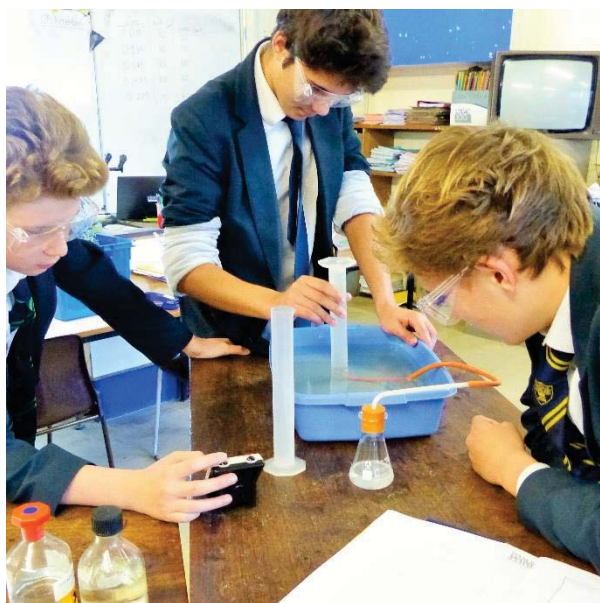
*It is expected that the majority of students will study the AQA Combined Science Trilogy GCSE during years 9, 10 and 11. A selected group of the more-able students may follow a course that leads to GCSEs in Biology, Chemistry and Physics. This course covers the same topics as the Combined Science course but these topics will include additional specialist extension material. Selection of this group of students will be based on the results of an assessment in February of year 9.*

### GCSE Combined Science: Trilogy

### GCSE Biology, Chemistry, Physics

Awarding Body: AQA

Possible Grades: 9-1



#### Course outline:

##### Biology topics:

Cell biology, Organisation, Infection and response, Bioenergetics, Homeostasis and response, Inheritance, variation and evolution, Ecology

##### Chemistry topics:

Atomic structure and periodic table, Bonding, structure and the properties of matter, Quantitative chemistry, Chemical changes, Energy changes, The rate and extent of chemical change, Organic chemistry, Chemical analysis, Chemistry of the atmosphere, Using resources

##### Physics topics:

Forces, Energy, Waves, Electricity, Magnetism and electromagnetism, Particle model of matter, Atomic structure

#### Assessment:

Written Assessment: 100%

#### For the Combined Trilogy Course:

The students will sit six equally-weighted papers, each lasting 1 hour 40 minutes, all at the end of year 11. There will be higher and foundation tier papers.

There is no course work for this course. Students will carry out sixteen practicals throughout the three years and any of these can be assessed on the written papers.

#### For the Biology, Chemistry and Physics Courses:

The students will sit two equally-weighted papers, each lasting 1 hour 45 minutes, for each of the three Science disciplines. These papers will all be sat at the end of year 11.

There is no course work for these courses. Students will carry out eight practicals in each of the three disciplines throughout the three years and any of these can be assessed on the appropriate written papers.

Specification link:

<http://www.aqa.org.uk/subjects/science/new-science-gcse-specifications>.

Recommended text book: GCSE Combined Science for AQA 9-1 (CGP 2016), or Biology, Chemistry and Physics revision guides in the same range. It is recommended that students do not purchase these revision guides until after they have been set in the February of Year 9.