

# Science

Head of Department

Mr O Aribigbola

CORE

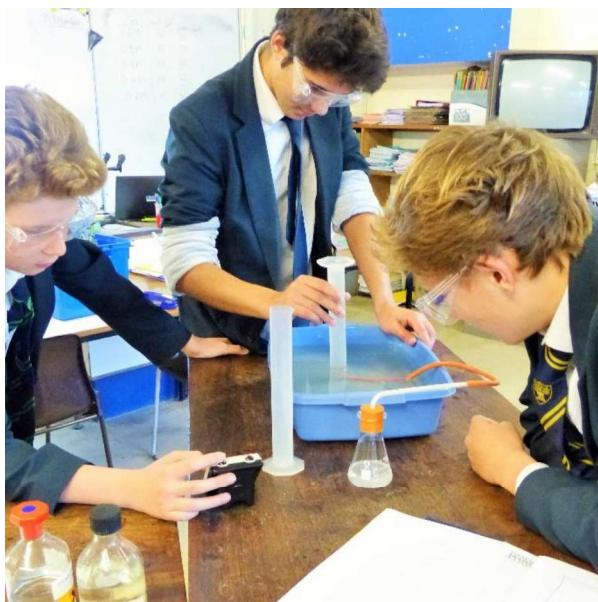
*Science helps our understanding of the world around us. Everything we know about the universe, from how trees reproduce to what an atom is made up of, is the result of scientific research and experiment. Human progress throughout history has largely rested on advances in science. From our knowledge of gravity to cutting-edge medicines, students of Science have shaped our modern world.*

*Most students will study the Combined Science Trilogy GCSE course and will receive a double-weighted GCSE grade at the end of year 11. A selected group of the more-able students may follow the Triple Science course that leads to separate GCSEs in Biology, Chemistry and Physics (see later in the options section of the booklet).*

## GCSE Combined Science: Trilogy

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%

The students will sit six equally-weighted papers, each lasting 1 hour 15 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.

#### Specification link:

<https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Recommended textbook: GCSE Combined Science for AQA 9-1 (CGP 2016)

