

# **GCSE Science at Ratton**

# Course overview



Biology	Chemistry	Physics
Cell Biology	Atomic Structure and the Periodic Table	Energy
Organisation	Bonding, Structure and Properties of Matter	Electricity
Infection and Response	Quantitative Chemistry	Particle Model of Matter
Bioenergetics	Chemical Changes	Atomic Structure
Homeostasis and Response	Energy Changes	Forces
Inheritance, Variation and Evolution	Rate and Extent of Chemical Change	Waves
Ecology	Organic Chemistry	Magnetism and Electromagnetism
	Chemical Analysis	(Space – Separate Science only)
	Chemistry of the Atmosphere	
	Using Resources	

# Combined and Separate Science – the difference!

- All students start to study the GCSE Science course in Year 9 – they cover 2 units for Biology, Chemistry and Physics
- The majority of students then continue to study AQA Trilogy Combined Science during Year 10 and 11.
- The Combined Science course covers a wide range of units in all three Science disciplines and students sit 6 exam papers at the end of Year 11. Students are then awarded 2 overall grades from the average scores from these exams.

# Combined and Separate Science – the difference!

- Some students who have consistently performed well across their core subjects will be selected to follow the AQA Separate Science course in Years 10 and 11.
- The Separate Science course requires a high standard of scientific understanding and interest as well as strong numeracy and literacy skills.
- The Separate Science course is taught as three different subjects, with 2 final exams in each subject.
- Students receive a separate grade for each of the Sciences.

# Key Points

- There are no controlled assessments or coursework components – both courses are 100% exam. Students will cover a considerable number of required practicals in their lessons – these will be assessed in the exams.
- Both courses cover the same biology, chemistry and physics units (with the addition of a Space physics unit for separate science)
- Both have the same number of exams covering the same units, however, separate science exams are longer in duration.

Separate Science will require students to have strong numeracy skills in particular.