

Dear Parent, Guardian & Student,

I wanted to contact all parents and students of all year groups to make everyone aware of the new changes in the GCSE Science curriculum.

As you may be aware the GCSE examinations have recently changed in their structure, content and the system of grading.

At the end of year 11 Separate Science students will now sit two 1hour 45minute examinations for each Science discipline; Biology, Chemistry & Physics. Meanwhile, Combined Science students will sit two 1hour 15minute examinations for each Science discipline.

Due to the increase in content and difficulty in the new GCSE Science specification students now start the course at the beginning of year 9. During year 9 all students will follow the Combined Science pathway in their 3 lessons per week. However, at the beginning of year 10, students in sets 1 and 2 will begin following the Separate Science pathway (6 lessons per week) whereas those in sets 3-6 will continue to follow the Combined Science pathway (5 lessons per week).

In order to help you and your child best prepare for the examinations I wanted to let you know how we will assess students in Science this year.

Students in Science will no longer have end of topic tests. Instead these have been replaced by written assessments at designated points during the year. Each year group in Science will sit an examination in their Science lessons at 3 or 4 points during the year with every student in that year group sitting the same exam. Each exam will test every topic they have studied to date meaning that subsequent assessments will increase in rigour due to the number of topics having been covered at that point. The rationale behind this is that in year 7 & 8 it will give our younger students the opportunity to become better practised at reviewing prior knowledge as well as current. It also allows students in years 9,10 and 11 to continuously review the GCSE content previously studied, keeping past concepts fresh. In addition, we hope all students will begin to understand the importance that if concepts are understood and learnt for the first assessment, their study for future assessments becomes significantly easier, students become better at linking ideas together and thus will be better prepared for the new linear GCSE examinations.

Year 11 will have separate Biology, Chemistry and Physics assessments during the following weeks which will cover topics from year 10 and 11.

Science teachers will be able to specifically tell students which topic areas to cover where 'part 1' is stated prior to the assessments.

To assist with preparation, students can access the online textbook by logging into Kerboodle and clicking on the 'Oxford GCSE' textbook.

Students can also purchase revision guides via Parent Pay if they didn't do last year— see second email attachment.

Parents will be informed of students' performance in each assessment when school data is sent home periodically.

Combined Science students – sets 3-6 – 5 Science lessons per week:

ASSESSMENT POINT 1 – WEEK 1 st – 5 th October		
AP1 topics:	BIOLOGY:	YEAR 10: Infection & response; Homeostasis and response (part 1 & 2); Ecology (part 1 & 2) YEAR 11: Organisation (part 1)
AP1 topics:	CHEMISTRY:	YEAR 10: Rates of chemical change; Bonding & structure (part 1 & 2); Atomic structure & PT (part 2); Organic Chemistry (part 1); Chemical changes; Energy changes
AP1 topics:	PHYSICS:	YEAR 10: Energy (part 1 & 2); Electricity; Forces & their effects; Particle model YEAR 11: Magnetism & electromagnetism
ASSESSMENT POINT 2 (mock exams - HALL) – WEEKS 3 rd – 14 th December		
AP2 topics:	BIOLOGY:	YEAR 9: Cell Biology; Bioenergetics (photosynthesis & respiration) YEAR 10: Infection & response; Homeostasis and response (part 1 & 2); Ecology (part 1 & 2) YEAR 11: Organisation (part 1); Inheritance, variation & evolution
AP2 topics:	CHEMISTRY:	YEAR 9: Atomic Structure & PT (part 1); Chemical Analysis (part 1); Chemistry of the atmosphere YEAR 10: Rates of chemical change; Bonding & structure (part 1 & 2); Atomic structure & PT (part 2); Organic Chemistry (part 1); Chemical changes; Energy changes YEAR 11: Quantitative Chemistry
AP2 topics:	PHYSICS	YEAR 9: Atomic structure (part 1); Forces & motion; Waves (part 1) YEAR 10: Energy (part 1 & 2); Electricity; Forces & their effects; Particle model YEAR 11: Magnetism & electromagnetism
ASSESSMENT POINT 3 (mock II - HALL) – WEEK 4 th – 8 th March		
AP3 topics:	BIOLOGY	YEAR 9: Cell Biology; Bioenergetics (photosynthesis & respiration) YEAR 10: Infection & response; Homeostasis and response (part 1 & 2); Ecology (part 1 & 2) YEAR 11: Organisation (part 1 & 2); Inheritance, variation & evolution
AP3 topics:	CHEMISTRY	YEAR 9: Atomic Structure & PT (part 1); Chemical Analysis (part 1); Chemistry of the atmosphere YEAR 10: Rates of chemical change; Bonding & structure (part 1 & 2); Atomic structure & PT (part 2); Organic Chemistry (part 1); Chemical changes; Energy changes YEAR 11: Quantitative Chemistry; Using resources (part 1); Extent of chemical reactions; Chemical changes (part 2)
AP3 topics:	PHYSICS	YEAR 9: Atomic structure (part 1); Forces & motion; Waves (part 1) YEAR 10: Energy (part 1 & 2); Electricity; Forces & their effects; Particle model YEAR 11: Magnetism & electromagnetism; Momentum & equations of motion