



Church of England School  
Executive Head and CEO: Dr Hilary Macaulay

15<sup>th</sup> September 2022

Dear Parent/Carer

### Year 10 Science Overview

We are writing to give you an overview of Science in Year 10 to help you support your child's learning and progress.

### Monitoring the progress of your child

Students in Year 10 either study Combined Science or Triple Science. Students studying Combined Science have 8 lessons per fortnight and Triple Students have 4 lessons per fortnight each for Chemistry and Physics and 5 lessons a fortnight for Biology. Teachers will complete termly tracking data based on your child's attitude to learning in lessons and progress (predicted grade). This data will be available to parents towards the end of each term. Students are encouraged to take ownership of their learning journey, through the use of revision folders and reflection on their progress throughout the course.

### GCSE Curriculum and Resources

Our Science curriculum has clear links to the school's curriculum intent of **Learning, Loving and Living** and there are frequent opportunities in our Science curriculum for students to develop in **Learning, Loving and Living**. In Year 10, students study Combined or Triple Science. In both the Combined and Triple courses, the curriculum covers a broad range of topics in Biology, Chemistry and Physics, with an overarching theme of developing practical skills. Students are required to complete a number of required practicals which are assessed through the terminal exams. The required practicals (as well as other practicals carried out throughout GCSE), give students the opportunity to plan, investigate, analyse, problem solve, evaluate, build independence, take risks and make links to the knowledge and understanding learnt previously at key stage three and taught at KS4. Teachers ensure that there are many opportunities to make links with the A Level Science curriculum that many go on to study and help them to manage their time and develop their independent and organisational skills, which are essential for future employment. Through the delivery of the AQA Combined Science or Triple Science GCSE our students are supported to develop the key skills needed for the exams as well as preparing them to be responsible and competent scientists for a sustainable and moral future. Students can find useful resources on the [KS4 Science TEAM](#) (accessible using their school email). Students are also encouraged to use free online resources such as [cognito](#), allowing students to watch videos, complete multiple choice questions and exam style questions on each topic. Students also have access to '[kerboodle](#)' which has a digital version of the textbook and activities that they can complete at home.

### Topics and Assessments

Students will complete an assessment at the end of each topic. This is usually a 30-40 minute test, comprising GCSE past paper questions. Students are expected to make corrections on their tests and reflect on their strengths and weaknesses. Students will either sit a Foundation or Higher test for each topic, which will be decided by the class teachers.

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Students will also sit end of year exams, assessing them on topics studied in Years 9 and 10. Students will be given a 'checklist' for each topic to help them revise and will be expected to complete a 'revision sheet' for each topic, to prepare them for the end of unit test. The revision sheet gives students opportunities to develop their literacy, maths, working scientifically and exam skills. Copies of these will also be placed onto the KS4 Science TEAM and set for homework on Arbor. Students will carry out up to 21 or 28 required practicals throughout the GCSE course, depending on whether they are studying Combined or Triple Science, respectively. Students will record their data and complete practice questions in their practical workbooks, which are issued to each child at the start of Year 9. Required practicals are assessed in the final GCSE exams (15% of each exam). The programmes of study for both the Combined Science course and Triple Biology, Chemistry and Physics can be found on the school's website, in the curriculum section. The programmes of study give details about what topics are covered in each term, what students have already learnt at KS3 and where they are progressing to:

- [Year 10 Combined POS](#)
- [Triple Biology POS](#)
- [Triple Chemistry POS](#)
- [Triple Physics POS](#)

An overview of the Year 10 Science curriculum (Science Learning Journey) can be found on the school's website: [LINK](#)

### **Practical work**

We are very eager to ensure that students will be able to complete many practical activities in Science. Our priority has to be the safety of our staff and students and as such, we have clear guidelines that students need to follow during practical lessons. Students who behaved in an unsafe manner may be issued with a detention or parents contacted.

### **Behaviour: rewards and sanctions**

Students who display excellent behaviour, effort, achievement or progress will be rewarded in a number of ways including by being given housepoints, stickers, certificates or receiving positive phone calls home. Each term teachers nominate students for the 'student of the term' award. Winners will be presented with certificates in assembly. Students are expected to follow the school behaviour policy. Students who cause disruption to lessons, fail to hand in homework or do not follow the health and safety guidelines may be placed onto a green Science report. Students will be set targets and their teacher will monitor them against these targets for a period of up to 6 lessons. If students fail their targets, they will be placed onto an orange report, where they will be monitored by one of the Heads of Department (Biology, Chemistry or Physics). Students who fail their orange report will be placed onto red Science report and this will be monitored by the Head of Faculty. Parents will be informed if students are placed onto Science report.

### **Supporting your child at home**

Parents can support their children at home in a number of ways:

- Help your child to organise their revision in a folder. The folder should contain end of topic tests, revision notes, checklists and mygcscience exam questions
- Ask questions, in everyday situations around the home e.g. how do you think that works?
- Work with your child to find answers to these questions using resources such as books, library, the internet
- Discuss any scientific news or TV programs with your child
- Ask your child to tell you about science they have done at school
- Show an interest in your child's science homework and check Arbor regularly
- Talk about the animals or plants you see in the garden or park
- Visit science based exhibitions, museums or zoological parks

Should you have any questions, please do not hesitate to contact us.

Yours sincerely,

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