

Year 11 Science – Autumn 1 – Information for Parents

Key Information:

Year 11 students have 9 hours of Science per fortnight for combined Science and 14 for Separate. Their teachers will cover all three subjects.

A Revision and Examination information evening for parents and carers is taking place on the 9th January 2025. Please save the date, more details to follow.

Google Revision Classroom:

AQA Separates Higher Revision

[Link to Classroom](#)

Class code: mulh4du

AQA Separated Foundation Revision

[Link to Classroom](#)

Class code: d3psvkn

AQA Combined Science Higher Revision

[Link to Classroom](#)

Class code: dz2yxif

AQA Combined Science Foundation Revision

[Link to Classroom](#)

Class code: fu6mtdi

Homework:

Homework will be set in accordance with the scheme of work for science. When students have been taught key concepts within each topic they study, Students will be asked to make a revision resource for that concept for their homework. These resources can then be used to revise for assessments and can be used when revising for the summer examinations.

In addition to this, students will be asked to use revision resources found in the Science Revision google classroom. Their focus should be at the required practical's section. Around 15% of the overall mark for their GCSE qualification will be based upon the knowledge and understanding they have gained when carrying out the required practical's.

Assessments:

Students will regularly receive verbal feedback from their teacher. Students will have an opportunity to peer/self-assess some assessments to familiarise themselves with mark schemes and exam board expectations. The next formal assessment for Year 11 students will take place in the second half of the Autumn term.

Lesson expectations:

All students are expected to attend all lessons and be punctual with the equipment required including a scientific calculator. Minimum: Pen, Pencil, Ruler, Green Pen, Rubber.

Biology - What are we studying?

Topic code linked to revision classroom: B10, B11, B13, B14 Combined. B10, B11, B12, B13 Separates.

We will begin the year by studying **B10: The Human Nervous System**, where students will explore the structure and function of the nervous system, reflex actions, and the vital role of homeostasis in regulating body conditions. Following this, we will move on to **B11: Hormonal Coordination**, focusing on the endocrine system, the control of blood glucose (including diabetes), and hormonal regulation of reproduction, including contraception and fertility treatments. Finally, we will cover **B13 and B14: Reproduction, Variation, and Evolution**, examining the mechanisms of genetic inheritance, causes of variation, and how evolution by natural selection shapes life on Earth. Separate students may begin topic B14 towards the end and continue into term 2.

Required Practical's: RP Reaction time; RP Effect of light/gravity on seedlings (Separates Only)

Revision Links:

- [Nervous System and Reflex Arc](#)
- [Homeostasis](#)
- [The Endocrine System](#)
- [Variation and Evolution](#)
- [Menstrual Cycle](#)

For more resources, exam practice and support notes, please access the **Google Classroom Revision Resources**

Chemistry – What are we studying?

Topic code linked to revision classroom: C8, C9, C12, C13 COMBINED. C8, C9, C10, C12 Separates.

This year, we will begin with **C8: Rates and Equilibrium**, exploring how different factors affect reaction rates and the concept of dynamic equilibrium. We will then move on to **C9: Crude Oil and Fuels**, focusing on hydrocarbons, fractional distillation, and environmental impacts of combustion. In **C12: Chemical Analysis**, students will learn about testing for gases and ions, purity, and chromatography. Finally, we will cover **C13: The Earth's Atmosphere** (for Combined) or **C10: Organic Reactions** (for Separates), delving into the evolution of the atmosphere or more complex organic reactions and polymers, respectively.

Required Practical's: RP Rates of Reaction; RP Chromatography

Revision Resources:

- [Rates of Reaction](#)
- [Effects Affecting Rates of Reaction](#)
- [Calculating Rates of Reaction](#)
- [Hydrocarbons](#)
- [Cracking Crude Oil](#)
- [Paper Chromatography](#)
- [Evolution of Earth's Atmosphere](#)

For more resources, exam practice and support notes, please access the **Google Classroom Revision Resources**

Physics – What are we studying?

Topic code linked to revision classroom: P8, P9, P10, P12 COMBINED. P8, P9, P10, P11, P12 Separates.

We will start with **P8: Forces in Balance**, exploring how forces interact, and how to achieve equilibrium in systems. This will lead into **P9: Motion**, where students will study speed, velocity, and acceleration through graphs and equations. Next, **P10: Force and Motion** covers Newton's laws, braking forces, and momentum. For Combined Science, we will finish with **P12: Wave Properties**, examining wave types and the electromagnetic spectrum, while Separate Science students will also study **P11: Force and Pressure**, learning about pressure in different states of matter and its applications.

Required Practical's: RP Force and Acceleration; RP Force and Extension; RP Waves

Revision Resources:

- [Balanced and Unbalanced Forces](#)
- [Vectors and Scalars](#)
- [Distance Time Graphs](#)
- [Newtons First and Second Law](#)
- [Newtons Third Law](#)
- [Introduction of Waves](#)



For more resources, exam practice and support notes, please access the **Google Classroom Revision Resources**

What to do if you have a question or concern...

Please email scienceinfo@theappletonschool.org We aim to respond to queries within 24 hours.