

KEY STAGE 4 CURRICULUM INFORMATION

KEY STAGE 4 SCIENCE

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Examination Board	Edexcel (Year 11 23-24)	Specification Code	YEAR 11- EDEXCEL
	AQA (Year 10 23-24)		Either GCSE Combined Science (1SCO) or Biology (1BI0), Chemistry (1CH0) and Physics (1PH0) separate Sciences.
			YEAR 10- AQA Either GCSE Combined Science TRILOGY (8464) or Biology (8461), Chemistry (8462) and Physics (8463) for those on Triple option.

HOW WILL STUDENTS BE ASSESSED?

EDEXCEL

The GCSE Science course provides insight into how science works, stimulating students' curiosity and encouraging them to think about science in their everyday lives.

Students are being prepared for the next stages of their education, which will be their GCSE exam (1-9) to be taken in the summer of yr11.

What will students learn? In year 10 (2022-2023)

Biology

- Topic 4 – Natural selection and genetic modification
- Topic 5 – Health, disease and the development of medicines
- Topic 6 – Plant structures and their functions
- Topic 7 – Animal coordination, control and homeostasis
- Topic 8 – Exchange and transport in animals

Chemistry

- Topic 9 – Calculations involving masses
- Topic 10-12 - Extracting metals and equilibria
- Separate chemistry 1 (Separate Science only) Transition metals; Quantitative analysis and Fuel cells
- Topic 13-15 – Groups in the periodic table and rates of reactions
- Topic 16-17 - Fuels and Earth Sciences

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Physics

- Topic 4 – Waves
- Topic 5 – Light and the electromagnetic spectrum
- Topic 6 – Radioactivity
- Topic 7 – Astronomy
- Topic 8 – Energy - Forces doing work
- Topic 9 – Forces and their effects
- Topic 10 – Electricity and circuits
- Topic 11 – Static electricity

In Year 11 (2023-2024):

Biology

- Topic 9 – Ecosystems and material cycles

Chemistry

- Separate chemistry 2(Separate Science only) - Organic chemistry

Physics

- Topic 12 – Magnetism and the motor effect
- Topic 13 – Electromagnetic induction
- Topic 14 – Particle model
- Topic 15 – Forces and matter

AQA

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Year 10 (Academic Year 2023-2024)

Biology

- Cell Biology
- Organisation
- Infection and Response
- Bioenergetics

Chemistry

- Atomic Structure
- Periodic Table
- Ionic, Metallic and Covalent Bonding
- Acids and Bases
- Electrolysis
- Energy Changes

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Physics

- Energy
- Particle Mode
- Forces
- Electricity
- Atomic Structure (Radioactivity)

Year 11 (Academic Year 2024-2025)

Biology

- Homeostasis and Response
- Inheritance
- Ecology

Chemistry

- Rates of Reaction
- Organic Chemistry
- Chemistry of the Atmosphere
- The Earths Resources

Physics

- Mains Electricity
- Waves
- Electromagnetism and Magnetism
- Space (TRIPLE ONLY)

WHAT CAN I DO TO SUPPORT MY CHILD AT HOME?

- Purchase any Edexcel Combined Science (or Physics, Biology and Chemistry) revision guide and practice book (YEAR 11)
- Use the Pearson website to go over past papers to support revision.
- Purchase any AQA Combined Science (or Physics, Biology and Chemistry) revision guide and practice book (YEAR 10)
- Use Tassomai to complete homework tasks set and keep an eye out for assessment dates. Use GCSEpod to revise.
- You can also use videos on cognito at [Cognito - Learn GCSE Biology, Physics and Chemistry - Completely Free \(cognitoedu.org\)](https://www.cognitoedu.org)

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TEACHING STAFF CONTACT DETAILS

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