



# GCSE

# Combined Science



This is a compulsory course for all pupils.

## Why study Combined Science?

Combined Science enables you to interpret ideas about the material world: whether it be investigating, observing, experimenting or testing out ideas and thinking about them. The way scientific ideas flow through the course will support you in building a deep understanding of science. This will involve talking, reading and writing about sciences in addition to practical elements. Working scientifically is the sum of all the activities that scientists do and it is woven throughout this course.

Exam Board:



## Overview of course content (specification code: 8464)

### Topics Studied

You will study the following topics throughout this course:

#### Biology

- Cell Biology
- Organisation
- Infection and Response
- Bioenergetics
- Homoeostasis and Response
- Inheritance, Variation and Evolution
- Ecology

#### Chemistry

- Atomic Structure and the Periodic Table
- Bonding, Structure and the Properties of Matter
- Quantitative Chemistry
- Chemical Changes
- Energy Changes
- The Rate and Extent of Chemical Change
- Organic Chemistry
- Chemical Analysis
- Chemistry of the Atmosphere
- Using Resources

#### Physics

- Energy
- Electricity
- Particle Model of Matter
- Atomic Structure
- Forces
- Waves
- Magnetism and Electromagnetism.

### Examination and Assessment

Examination	% of GCSE
<b>Biology Paper 1</b> Assessed on Biology topics 1-4: Cell Biology; Organisation; Infection and Response and Bioenergetics.	16.7%
<b>Biology Paper 2</b> Assessed on Biology topics 5-7: Homoeostasis and Response; Inheritance, Variation and Evolution and Ecology.	16.7%
<b>Chemistry Paper 1</b> Assessed on Chemistry topics 8-12: Atomic Structure and the Periodic Table; Bonding, Structure and the Properties of Matter; Quantitative Chemistry; Chemical Changes and Energy Changes.	16.7%
<b>Chemistry Paper 2</b> Assessed on Chemistry topics 13-17: The Rate and Extent of Chemical Change; Organic Chemistry; Chemical Analysis; Chemistry of the Atmosphere and Using Resources.	16.7%
<b>Physics Paper 1</b> Assessed on Physics topics 18-21: Energy; Electricity; Particle Model of Matter and Atomic Structure.	16.7%
<b>Physics Paper 2</b> Assessed on Physics topics 22-24: Forces; Waves and Magnetism and Electromagnetism.	16.7%

If you have any questions, please contact:  
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**Please note:** all examinations have a duration of 1 hour 15 minutes, with 70 marks per paper.