



Wigston Academy

Combined Science

GCSE 2024 - 2026

Examination Board

AQA Combined science (Trilogy) 8464

Core Subject

What will I be studying?

Combined Science is worth 2 GCSE grades and covers Biology, Chemistry and Physics

Topic Covered:

Biology

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics
5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology

Chemistry

8. Atomic structure and the periodic table
9. Bonding, structure, and the properties of matter
10. Quantitative chemistry
11. Chemical changes
12. Energy changes
13. The rate and extent of chemical change
14. Organic chemistry
15. Chemical analysis
16. Chemistry of the atmosphere
17. Using resources

Physics

18. Energy
19. Electricity
20. Particle model of matter
21. Atomic structure
22. Forces
23. Waves

24. Magnetism and electromagnetism

How will I be studying?

Students will have a mixture of theory lessons and practicals- these will include the 'required practicals' stated by the exam board. Students will be given opportunities to see exam style questions throughout the course.

How will I be assessed?

There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas. Each paper is 1 hour 15 minutes (70 marks) and consists of: multiple choice, structured, closed short answer, and open response questions.

Biology Paper 1

What's assessed

Biology topics 1–4: Cell Biology; Organisation; Infection and response; and Bioenergetics.

Biology Paper 2

What's assessed

Biology topics 5–7: Homeostasis and response; Inheritance, variation and evolution; and Ecology.

Chemistry Paper 1

What's assessed

Chemistry topics 8–12: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry; Chemical changes; and Energy changes.

Chemistry Paper 2

What's assessed

Chemistry topics 13–17: The rate and extent of chemical change; Organic chemistry; Chemical analysis; Chemistry of the atmosphere; and Using resources.

Physics Paper 1

What's assessed

Physics topics 18–21: Energy; Electricity; Particle model of matter; and Atomic structure.

Physics Paper 2

What's assessed

Physics topics 22–24: Forces; Waves; and Magnetism and electromagnetism

Where Next?

Most colleges will require a grade 4 to study beyond GCSE level in most subjects.

Therefore, this qualification can unlock doors to most professions.

In Science specifically, this qualification may lead to any of the following:

- **A-Level Biology (Available at Wigston College)**
- **A-Level Chemistry (Available at Wigston College)**
- **A-Level Physics (Available at Wigston College)**