

GCSE Combined Science Trilogy

Course Specifications

Course Title: Combined Science Trilogy

Exam Board: AQA

Link to specification:

<https://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Grading: 9-1

Course Details

What will you learn?

Year 10

Autumn

B1: Cell Structure and transport

B2: Cell Division

B3: Cell organisation and the digestive system

B4: Organising animals and plants

B5: Communicable diseases

B6: Preventing and treating diseases

C1: Atomic Structure

C2: The periodic table

P1: Conservation and dissipation of energy

P2: Energy transfers

P3: Energy resources

Spring

P4: Electrical circuits

P5: Electricity in the home

C3: Structure and bonding

C4: Chemical calculations

C5: Chemical changes

B7: Non-Communicable diseases

Summer

C14: Extracting metals from ores

C7: energy changes

C8: Rates and equilibria

C9: Crude oils and fuels

P6: Molecules and matter

Year 11**Autumn**

B8: Photosynthesis

B9: Respiration

B10: The human nervous system

B11: Hormonal coordination

B13: Reproduction

B14: Variation and evolution

C12: Chemical analysis

C13: Earth and atmosphere

P7: Radio activity

Spring

B15: Genetics and evolution

B16: Adaptation interdependence and competition

B17: Organising an ecosystem

B18: Biodiversity and ecosystem

P8: Forces in action

P9: Motion

P10: Forces and motion

P12: Waves properties

P13: Electromagnetic waves

P15: Electromagnetism

Summer

C14: The earth's resources

Preparation for exams

How will you be assessed?**During the course:****Year 10:**

Progress checks, End of unit tests, Mid-year exams, end of year exams, quizzes and homework

Year 11:

Progress checks, End of unit tests, PPE 1, PPE 2, Quizzes and Homework

At the end of the course:**Your final grade will be awarded based on the following examinations and / or coursework.**

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

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

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

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

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

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

Paper 2:**Biology topics 5–7:** Homeostasis and response; Inheritance, variation and evolution; and Ecology.

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

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

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

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

- Written exam: 1 hour 15 minutes
- Foundation and Higher Tier
- 70 marks
- 16.7% of GCSE

What independent work can you do?**Learn:**

Glossary of Key Terms

RAG and Revisit:

PLCs
Explore:
Kerboodle, Seneca, Quizzes, Free Science lessons
Revise:
Top tips and strategies, spaces revision, Mind maps, Quizzes, GCSE-POD, Maths and Physics tutor, Free science lessons, Seneca
Prepare:
Exam papers, VIPzone

Which resources should you use?
Textbooks, websites, online resources
Kerboodle
AQA Website
Maths and Physics tutor
Seneca
GCSE POD