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
C1:Atomic Structure
C2: The periodic table
C3: Structure and bonding
C4: Chemical calculations
P1: Conservation and dissipation of energy
P2: Energy transfers
P3: Energy resources

Spring

P4: Electrical circuits

P5: Electricity in the home
P6: Molecules and matter
P7: Radio activity
C5: Chemical changes
C6: Electrolysis
C7: energy changes
B5: Communicable diseases
B6: Preventing and treating diseases

Summer

P8: Forces in action
P9: Motion
C14: Extracting metals from ores
C8: Rates and equilibriums

C9: Crude oils and fuels
B7: Non-Communicable diseases
B8: Photosynthesis
B9: Respiration
B16: Adaptation interdependence and competition

Year 11

Autumn

P8: Forces in action
P9: Motion
P10: Forces and motion
C8: Rates and equilibriums
C9: Crude oils and fuels
C12: Chemical analysis
C13: Earth and atmosphere
B16: Adaptation interdependence and competition
B10: The human nervous system
B11: Hormonal coordination

Spring

B13: Reproduction
B14: Variation and evolution
B15: Genetics and evolution
B17: Organising an ecosystem
B18: Biodiversity and ecosystem
C14: The earth's resources
P12: Waves properties
P13: Electromagnetic waves
P15: Electromagnetism

Summer

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**