



Year 10

Steps to Success Presentation

Science

Miss Bohan – Head of Faculty



Introduction to the subject

Name of subject

GCSE Science

Type of qualification

GCSE Science Qualifications received will be 2 GCSE Science grades 9-1

Exam board

AQA Syllabus, 9-1 AQA Trilogy specification for GCSE Combined Science

The components of the qualification

The course includes Biology Chemistry and Physics and Required practical components



Course Outline

The AQA combined Science course components

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



Assessment

How the subject is assessed both internally and externally

Internally-End of unit assessments with your class teacher and assessment points per the school calendar

Externally-There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.

Biology Paper 1

What's assessed

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

How it's assessed

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

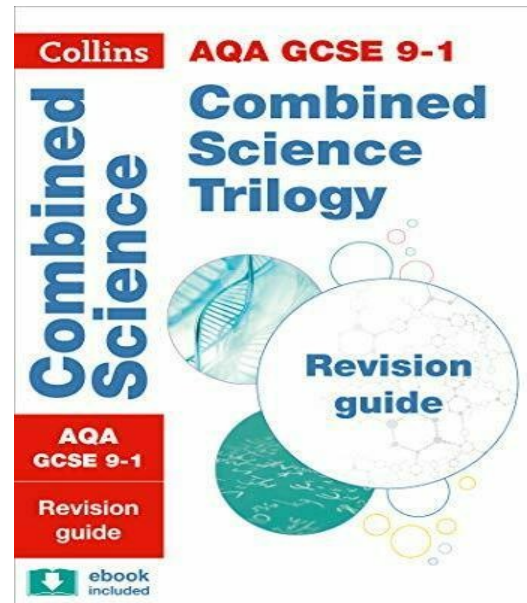
Questions

Multiple choice, structured, closed short answer, and open response.



Key learning habits for success in this subject

- Knowledge organisers for scientific terminology
- Examination homework books for each topic to help with examination practice and retrieval. These include application questions linked to the key vocabulary in Knowledge organisers
- All students have access to a Combined Science revision guide
- Weekly Revision schedule linked to revision guide
- Key questions outlined for completion in Revision guide
- After school intervention sessions with a focus on required practical's which is a vital component of the course



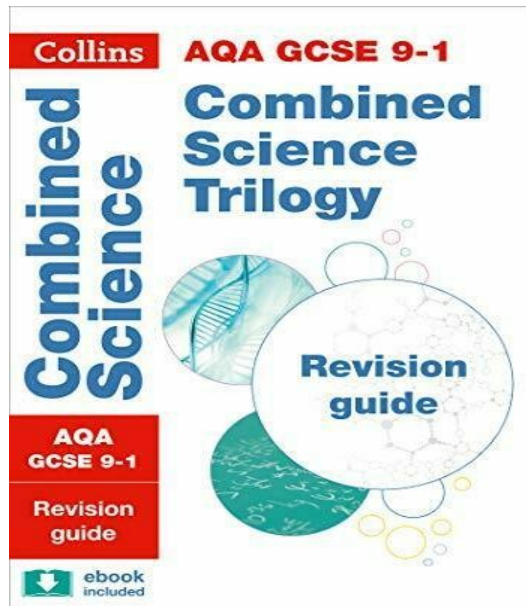
What can I do to support my child?

- Completing revision schedule with Combined Science revision guide
- Using Freescience videos to revisit required practical lessons
https://www.youtube.com/channel/UCqbOeHaAUXw9II7sBVG3_bw
- Using the National Oak academy lessons by topic
<https://classroom.thenational.academy/subjects-by-key-stage/key-stage-4/subjects/combined-science>
- BBC Bitesize Combined trilogy multiple choice practice questions
<https://www.bbc.co.uk/bitesize/examspecs/z8r997h>
- Ensuring definitions of scientific terminology is revisited using Knowledge organisers and homework application questions are completed



Key reading

Your Combined Science Trilogy guide covers all the syllabus content and is a great way to read and secure your knowledge. There are practice questions and summary activities within the text to support your knowledge and understanding.



Any questions

If you have any questions regarding Science please email me directly s.bohan@alsophigh.org.uk

If you have any general queries please email one of the Year 10 pastoral leads

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