

Welcome to GCSE Science



10/20/2023

What's involved?



All students must study science and in the Combined course still learn Biology, Chemistry and Physics.



Students have 10 lessons every 2 weeks and have 2 science teachers.



Students will take either the Combined Science course ending up with 2 GCSEs or Separate science gaining GCSEs in Biology, Chemistry and Physics.

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What do they study?

Year 10 are studying paper 1 topics this year which are listed below. They will begin paper 2 subjects towards the end of year 10.

These are the topics they are studying this year:

Biology

Cells
Organisation of
plants and animals.
Infection and
how we respond.
Photosynthesis
and Respiration.

Chemistry

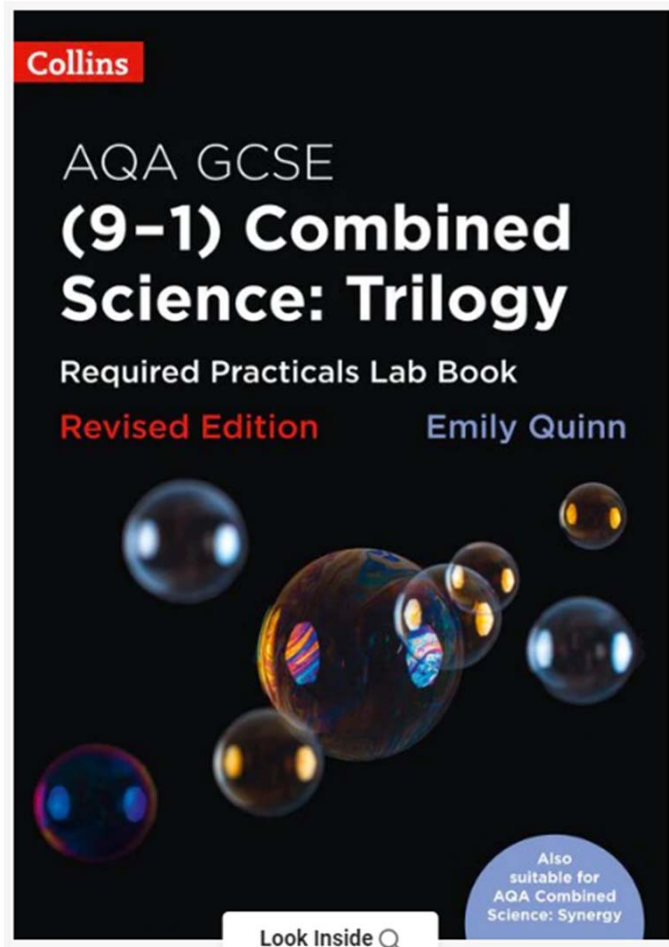
Atomic structure
and the periodic table.
Chemical bonding
Quantitative chemistry
Chemical changes
Energy changes

Physics

Energy
Electricity
Particle model
Atoms and radiation

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Required Practicals Matter



- There are 21 required practicals in the 2-year course that students **must complete**.
- The skills learned by completing this work are tested in every GCSE science exam.
- All students have one of these books. They use these to complete their required practicals, analyse their data and answer practice exam questions.
- These will stay in school until students finish the course in year 11 and begin revision (usually in March ahead of their exams).

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The Exams

- There are six papers for science GCSE: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.
- Towards the end of year 10 the students will take 3 exams all for paper 1 content.
- These exams will be 1 hour 15 mins long and contain 6-7 questions which are progressively harder.
- The results of these are used to assess gaps in knowledge to reteach as well as confirming who will take triple science or higher or foundation tier combined.

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Steps to Success

Two things that are proven to work for most people:

REPETITION – little and often better

TEST YOURSELF – past papers, small quizzes

Parents/carers/siblings CAN HELP...



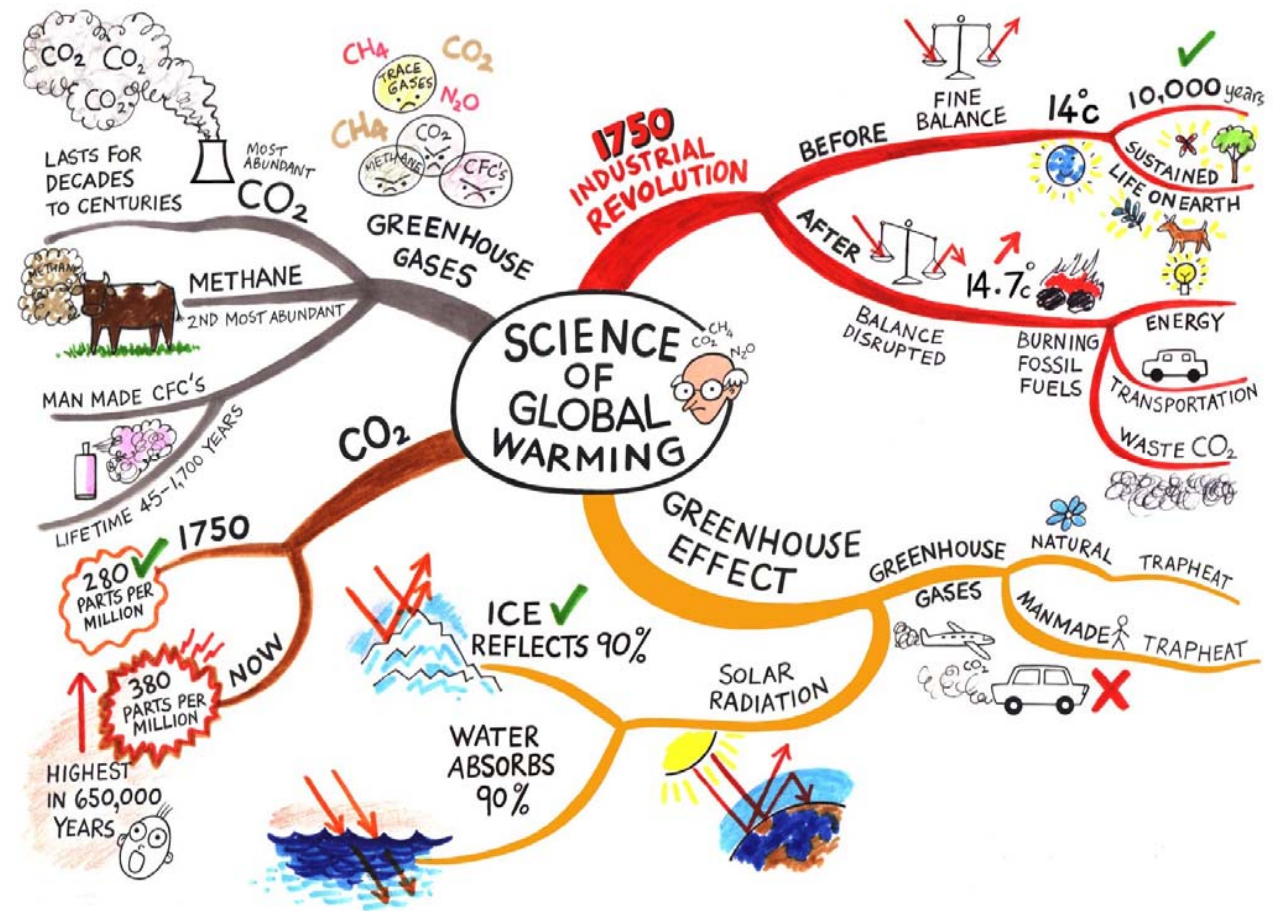
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Steps to Success

MIND MAPS:

For SUMMARISING a
topic and making LINKS.

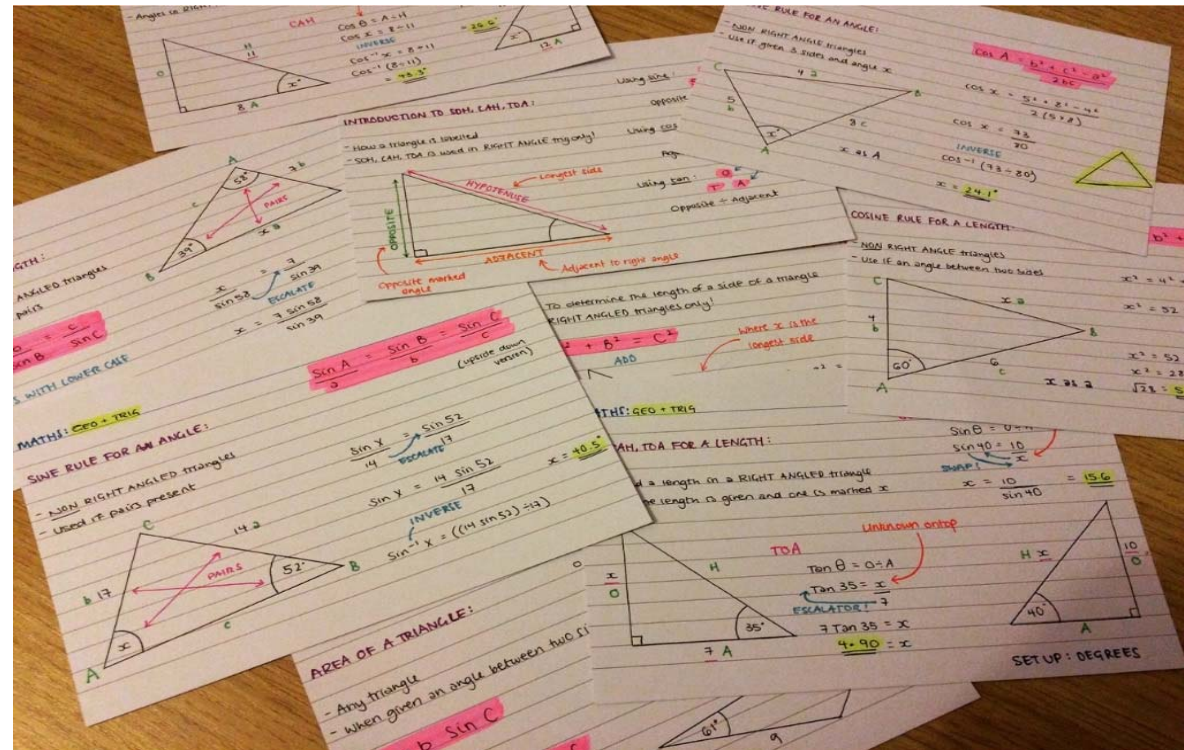


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Steps to Success

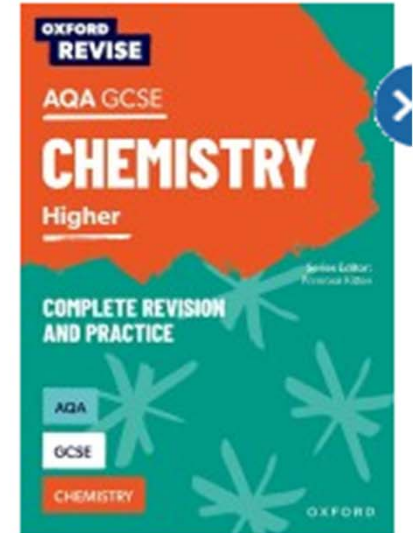
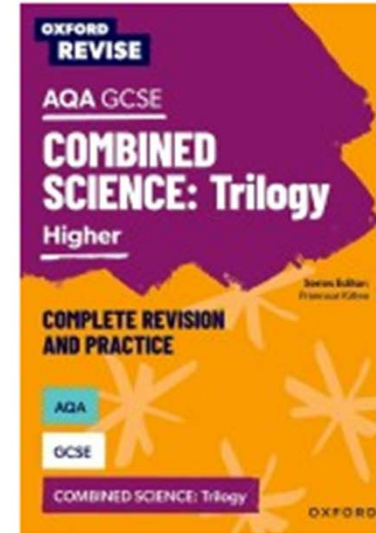
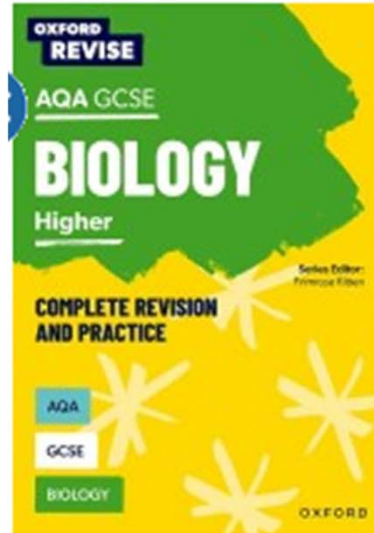
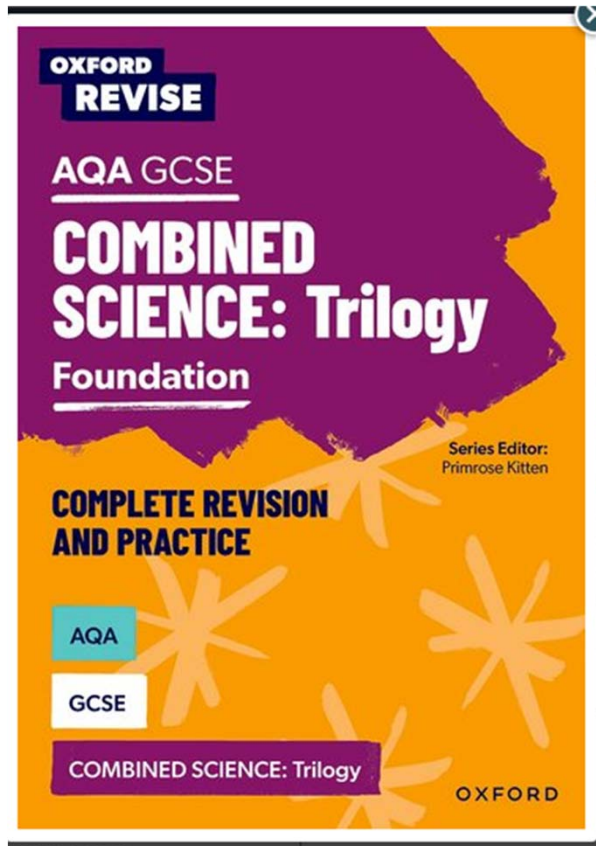
Flash Cards:



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Revision Guides



These are the revision guides which contain knowledge, retrieval and exam practise and are a superb resource. They are available to buy from the school at a reduced cost via parentpay.

A letter detailing information will be sent out to all year 10 families.

10/20/2023

Other revision ideas

There is a lot of content in science and those students that continually study outside school always do well.

- **Complete all Seneca homework tasks.**
- **Post it notes around room**
- **Mnemonics (OILRIG)**
- **Revision websites such as BBC Bitesize**
- **AQA exam board website (specimen papers and mark schemes, sample revision guide material)**
- **Read, cover, check – use your notes and revision guides.**



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GCSE Science Information – Year 10

All students must study science and in the Combined course still learn Biology, Chemistry and Physics topics. Students have 10 lessons every 2 weeks and will take either the Combined Science course ending up with 2 GCSEs or Separate science gaining GCSEs in Biology, Chemistry and Physics.

Practical Work

There are 21 required practicals in the 2-year course that students **must complete**.

The skills learned by completing this work are tested in every GCSE science exam.

All students are provided with one of these books which they use to complete their required practicals, analyse their data and answer practice exam questions.

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The Exams

There are **six** final papers for science GCSE: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.

Towards the end of year 10 the students will take 3 exams all for paper 1 content (one biology, one chemistry and one physics).

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Revision ideas and useful websites

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- Read, cover, check – use your notes and revision guides.

Useful science websites:

<https://www.physicsandmathstutor.com/> Lots of notes, exam questions and mark schemes and flashcards

<https://www.youtube.com/channel/UCBgvmal8AR4QIK2e0EfJwaA> Lots of revision videos

<https://www.bbc.co.uk/bitesize/levels/z98jmp3> Any subject, videos, exam practice, notes

<https://cognitoresources.org/> Lots of very useful videos here too.

There are others but these 4 more than cover anything students need to revise and all students have access to Seneca.