

What's involved?



All students must study science and they learn topics from 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.



10/20/2023

What do they study?

Year 11 will have their first set of mocks in November. This will be based on paper 1 topics. They will have the second set of mocks in March where they will be tested on paper 2 topics.

The topics they should be revising for November are:

Biology

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

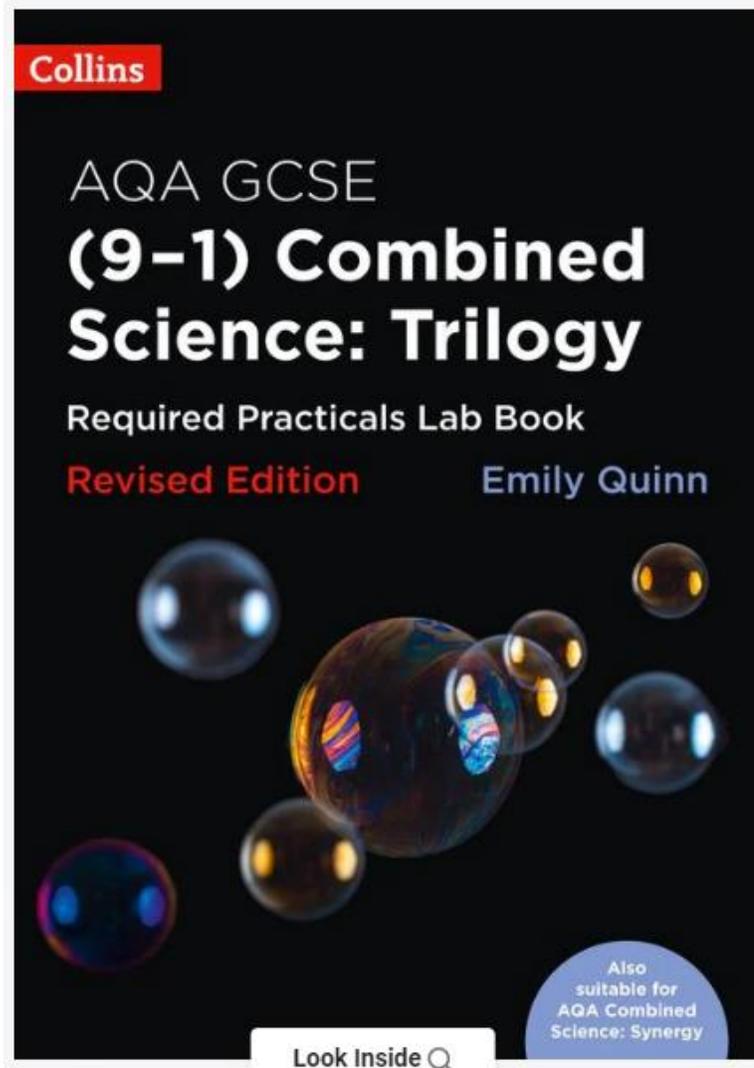
Chemistry

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

Physics

Energy
Electricity
Particle model
Atoms and radiation

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 and begin revision (usually in March ahead of their exams).

10/20/2023

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.
- The dates for the first mocks are:
 - 15/11/2023 – Biology
 - 16/11/2023 – Chemistry
 - 17/11/2023 - Physics
- 1. 15/11/2023 - Biology
- 2. 16/11/2023 - Chemistry
- 3. 17/11/2023 - Physics
- These exams will be 1 hour 15 mins for combined students and 1 hour 45 mins for triple students.
- 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.

Steps to Success

Two things that are proven to work for most people:

REPETITION – little and often better

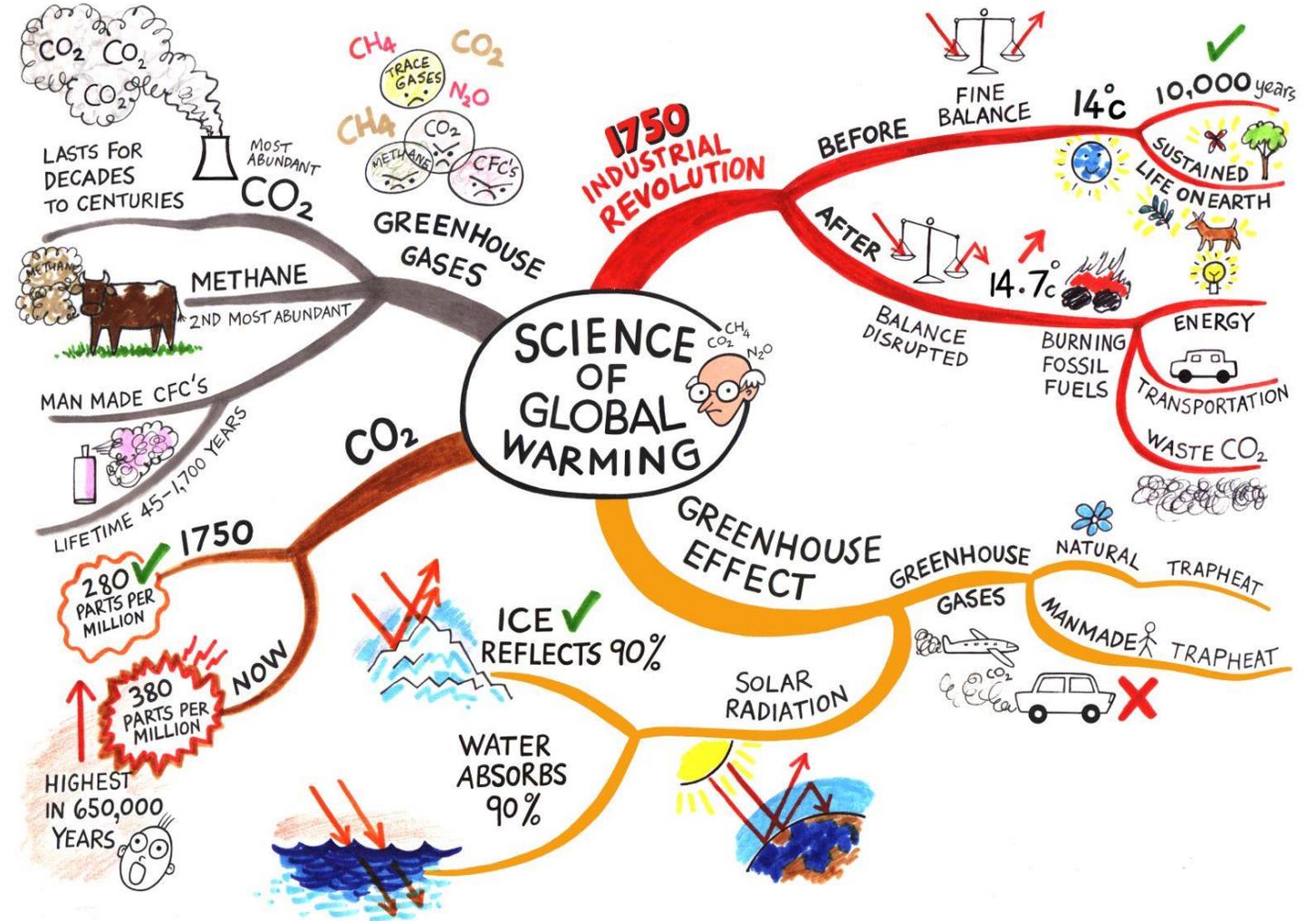
TEST YOURSELF – past papers, small quizzes

Parents/carers/siblings CAN HELP...

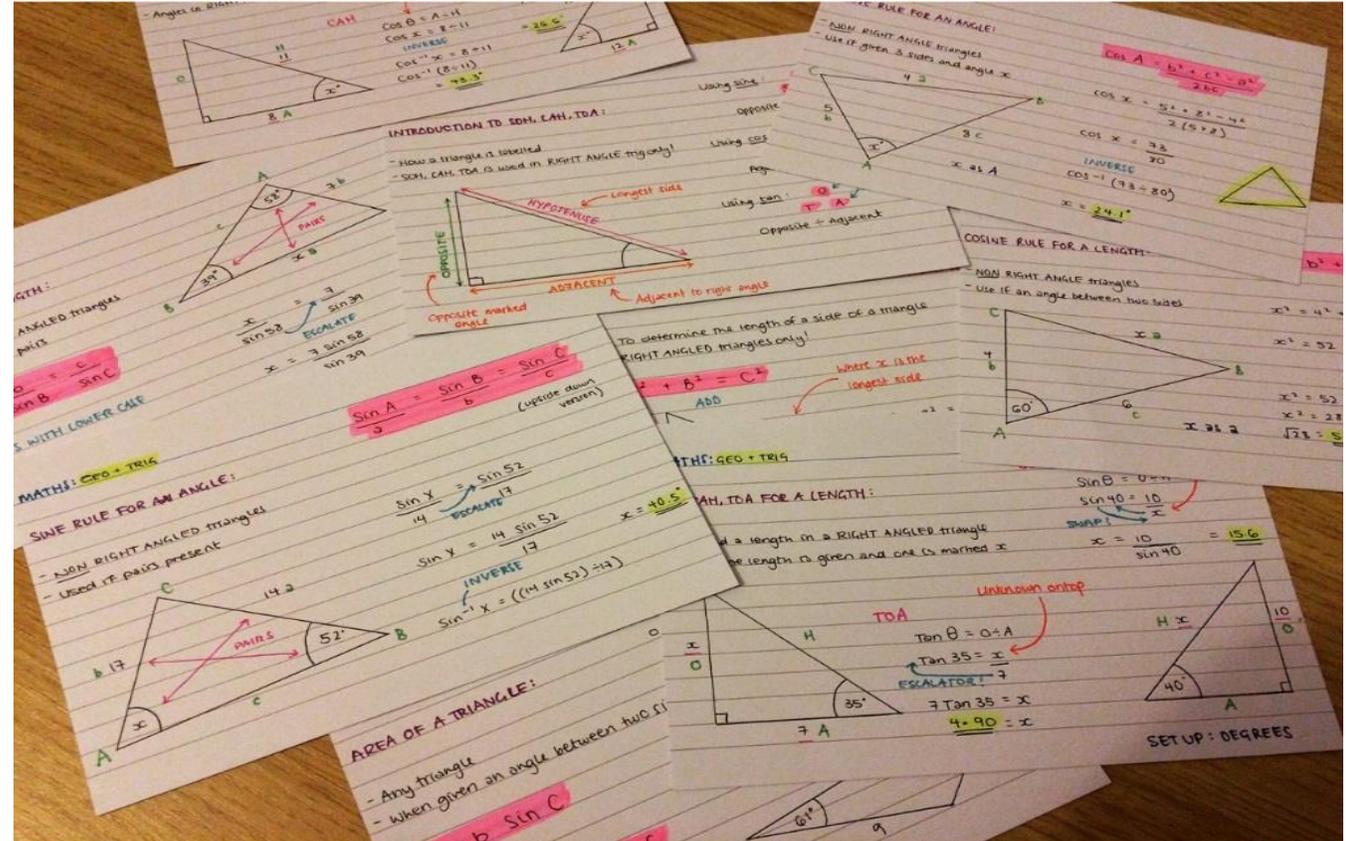


MIND MAPS:

For SUMMARISING a topic and making LINKS.

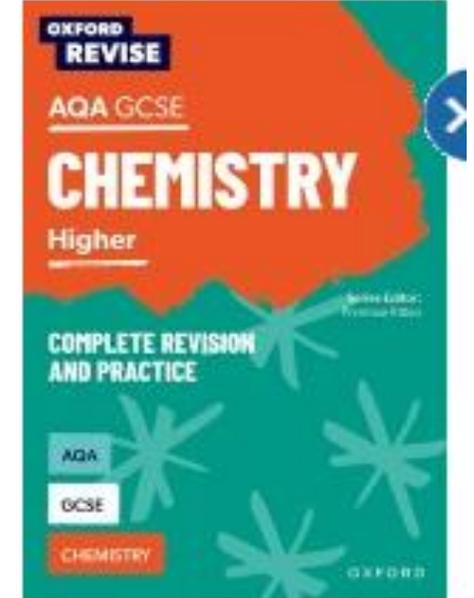
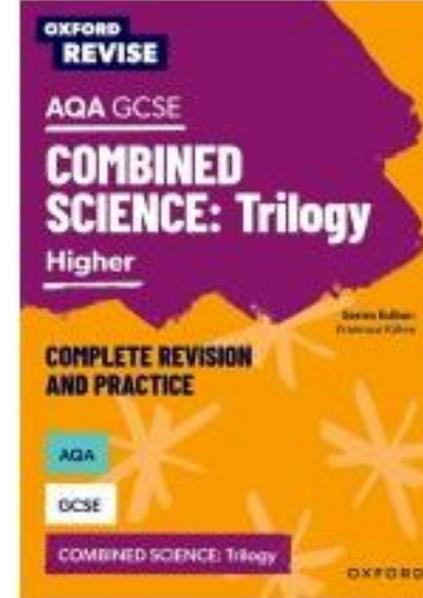
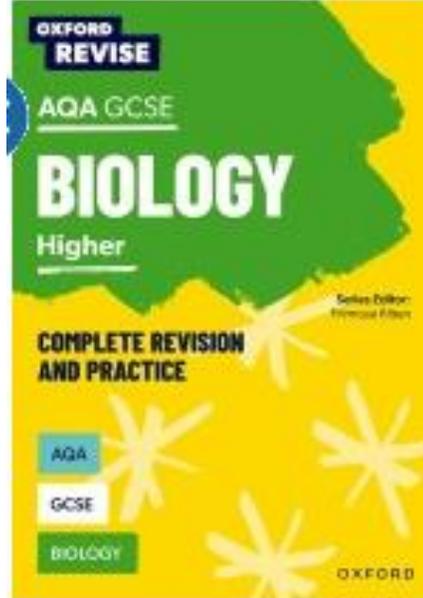
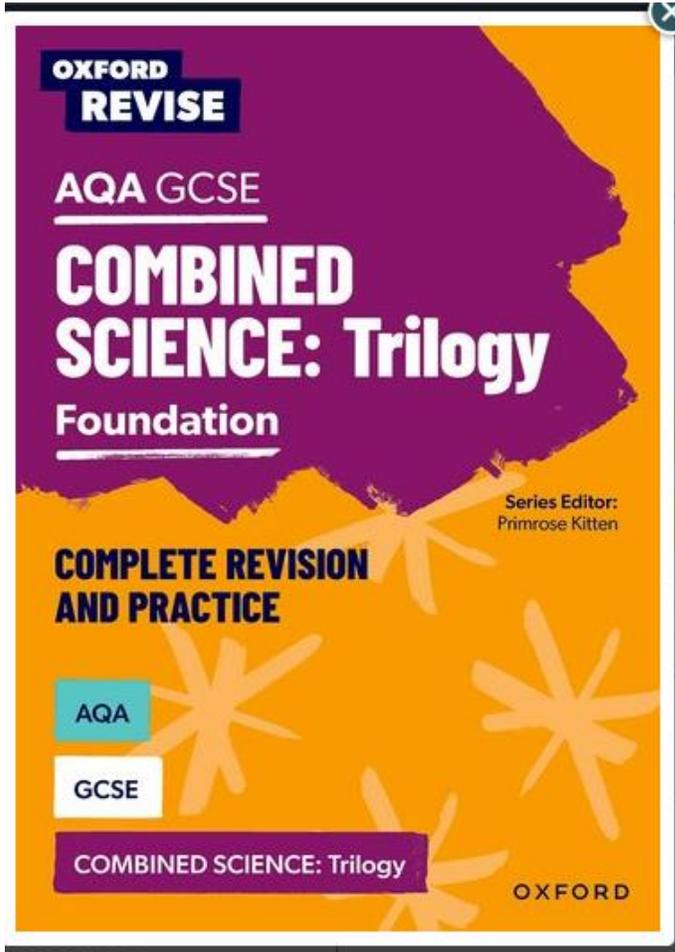


Flash Cards:



10/20/2023

Revision Guides



There are different revision guides available which contain knowledge, retrieval and exam practise and are a superb resource.

If any year 11 student would like these, please contact Mrs Kelly who can arrange for them to be available to buy at a reduced cost via parentpay.



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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.

These will stay in school until students finish the course in year 11 and begin revision (usually in March ahead of their exams).



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).

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, higher tier combined, and foundation tier combined.



Revision Guides

These revision guides 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.

Revision ideas and useful websites

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)
- AQA exam board website (specimen papers and mark schemes, sample revision guide material)
- 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.