

Y10 Science GCSE Parent info

The exam board for Science is AQA for both Triple Science and Trilogy combined students.

The topic list for Triple Science is:

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

The topic list for Trilogy Science is:

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

For either pathway there are six papers, two biology, two chemistry and two physics. All examinations are at the end of Year 11.

Each of the papers will assess knowledge and understanding from distinct topic areas, as well as core science skills such as graphing and analysis.

For Triple Science students, each exam is 105 minutes and is worth 50% of the biology, chemistry and physics GCSE.

For Trilogy Combined students, each exam is 75 minutes – the scores for all of the papers are added up and used to give 2 overall GCSE grades for Science.

How can you support your child?

The biggest challenge in Science is the amount of content the students have to learn. Ensure your child has the correct knowledge organisers and retriever – these will be available at a discounted rate from the science department in the next week or so. Please look out for the communication via school communications with all of the details.

We will be using the books and ideally students will have them with them to use in school. We will also be setting homework from the knowledge retrievers – so students should be in the habit of using them.

We want students to be active in their revision – making flash cards for each topic test is a great idea, you can then use the cards to test them! Mind maps and notes (made from memory and then improved with the book) are also great revision strategies. They need to be reviewing work regularly, there will be half termly assessments and the more students study and learn as they go through, the easier GCSE will be ultimately as students will have good knowledge base already

For students who prefer to watch videos on the content when revising – there are lots of excellent options:

Websites:

All of the following can be found on www.youtube.com

FreeSciencelessons – lots of clips covering the majority of the Science syllabus.

Fuseschool – mostly Chemistry and Physics clips.

The Amoeba sisters – Biology clips on many of the GCSE topics.

Primrose kitten – tutorials on the Science content plus useful revision tips.

BBC bitesize is also a nice place to go to review content and do some online testing.