



Specification

At the Swanage School we use the Edexcel exam board for GCSE Science.

The specification includes all the things that students will have covered in their studies.

For combined science:

- <https://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/Specification/gcse-combinedscience-spec.pdf>

For Triple science

- <https://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/Specification/gcse-biology-spec.pdf>
- <https://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/Specification/gcse-chemistry-spec.pdf>
- <https://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/Specification/gcse-physics-spec.pdf>

Revision Sites and Resources

Teacher Resources

Your Science Teacher will have uploaded resources to TEAMS for you to use:

Science – Files – Class Materials – Revision Materials

Use past papers and mark them yourselves. [past papers](#)

GCSE Pod

- Video tutorials aligned to Edexcel spec
- Covers all topics and required practicals
- Students already have a login <https://www.gcsepod.com/students/>

My GCSE Science

- Video tutorials aligned to Edexcel spec
- Covers all topics and required practicals
- Visit site <https://www.my-gcscscience.com/students/>

Save My Exams

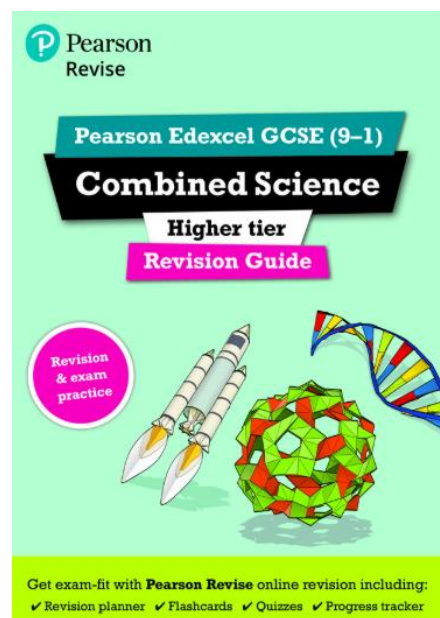
- Revision notes, past papers, model answers
- [Edexcel Combined Science Resources](#)

BBC Bitesize

- Topic summaries and interactive quizzes
- BBC Bitesize Combined Science
- Free [GCSE Combined Science - Edexcel - BBC Bitesize](#)

Tips for Parents

- Encourage **weekly revision** (1 hour per subject)
- Use [past papers](#) for practice
- Help your child **plan a revision timetable**
- Discuss **exam technique** and **time management**



Pearson Combined Science
Revision Guide
[Higher](#)
[Foundation](#)

Contact Head of Science:

matthewbalistrari@theswanageschool.co.uk



Exam Content

Biology

- Paper 1 Topics:** Key Concepts in Biology, Cells and Control, Genetics, Natural Selection and Genetic Modifications, Health, Disease and The Development of Medicines.
- Paper 2 Topics:** Key Concepts in Biology, Plant Structures and Their Functions, Animal Coordination, Control and Homeostasis, Exchange and Transport in Animals, Ecosystems and Material Cycles

Chemistry

- Paper 3 Topics:** Key Concepts in Chemistry, States of Matter and Mixtures, Chemical Changes, Extracting Metals
- Paper 4 Topics:** Key Concepts in Chemistry, Groups in the Periodic Table, Rates of Reaction and Energy Changes, Fuels and Earth Science

Physics

- Paper 5 Topics:** Key Concepts in Physics, Motion and Forces, Conservation of Energy, Waves, Light and The Electromagnetic Spectrum, Radioactivity
- Paper 6 Topics:** Key concepts in Physics, Energy – Forces Doing Work, Forces and Their Effects, Electricity and Circuits, Magnetism and the Motor Effect, Electromagnetic Induction, Particle Model, Forces and Matter

Exam Breakdown

Combined Science Structure and Assessment

Gain 2 GCSEs in Science (which combine all three science – Biology, Chemistry and Physics)

The course consists of six externally examined papers. These are available to take at Higher tier (grades 9-4) and Foundation tier (grades 5-1). All exams are completed at the end of Year 11.

BIOLOGY	CHEMISTRY	PHYSICS
PAPER 1 1 hr 10 mins 60 marks	PAPER 2 1 hr 10 mins 60 marks	PAPER 3 1 hr 10 mins 60 marks
PAPER 4 1 hr 10 mins 60 marks	PAPER 5 1 hr 10 mins 60 marks	PAPER 6 1 hr 10 mins 60 marks

Mathematical skills are assessed through the content. For combined Science, 20% of marks are allocated to the assessment of mathematical skills across all papers. There are 18 required practicals that students could possibly be tested on.

Triple Science Structure and Assessment

Gain 3 GCSEs in Science – Biology, Chemistry and Physics

The course consists of six externally examined papers. These are available to take at Higher tier (grades 9-4) and Foundation tier (grades 5-1). All exams are completed at the end of Year 11.

BIOLOGY	CHEMISTRY	PHYSICS
PAPER 1 1 hr 45 mins 100 marks	PAPER 2 1 hr 45 mins 100 marks	PAPER 3 1 hr 45 mins 100 marks
PAPER 4 1 hr 45 mins 100 marks	PAPER 5 1 hr 45 mins 100 marks	PAPER 6 1 hr 45 mins 100 marks

Mathematical skills are assessed through the content. The marks allocated to assessment of mathematical skills is 30% Physics, 20% Chemistry, and 10% Biology

There are 24 required practicals that students could possibly be tested on.