

Topics and Assessments

Edexcel (9-1) - Single Sciences GCSE (1SC0)

The specification can be found here: <http://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.html#tab-0>

This documents explains how Edexcel writes the question papers:

<http://qualifications.pearson.com/content/dam/pdf/GCSE/Science/2016/teaching-and-learning-materials/Edexcel-GCSE-Science-Explaining-our-exams-guide.pdf>

There are **six papers** in total and this will gain you 3 separate GCSEs (Biology, Chemistry, Physics). 2 papers each for biology, chemistry and physics these will all be taken at the **end of Year 11** in the Summer exams.

Each paper is 1hr 45mins – 100 marks (50% of the GCSE)

Biology Topics

Paper 1: topics 1-5

- Key concepts in biology
- Cells and control
- Genetics
- Natural selection and genetic modification
- Health, disease and the development of medicines

Paper 2: topic 1 + topics 6-9

- Key concepts in biology
- Plant structures and their functions
- Animal coordination, control and homeostasis
- Exchange and transport in animals
- Ecosystems and material cycles

Chemistry Topics

Paper 1: topics 1-5

- Key concepts in chemistry
- States of matter and mixtures
- Chemical changes
- Extracting metals and equilibria
- Separate chemistry 1

Paper 2: topic 1 + topics 6-8

- Key concepts in chemistry
- Groups in the periodic table
- Rates of reaction and energy changes
- Fuels and Earth science
- Separate chemistry 2

Physics Topics

Paper 5: Physics 1 – topics 1-7

- Key concepts of physics
- Motion and forces
- Conservation of energy
- Waves
- Light and the electromagnetic spectrum
- Radioactivity
- Astronomy

Paper 6: Physics 2 - topic 1 + topics 8-15

- Key concepts of physics
- Energy - Forces doing work
- Forces and their effects
- Electricity and circuits
- Magnetism and the motor effect
- Electromagnetic induction
- Particle model
- Forces and matter

