

# Topics and Assessments

## Edexcel (9-1) - Combined Science 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 2 GCSEs for the combined Science: 2 for biology, 2 for chemistry and 2 for physics these will all be taken at the **end of Year 11** in the Summer exams.

Each paper is 1hr 10mins – 60 marks (16.7% of the GCSE)

### Biology Topics

#### **Paper 1: Biology 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: Biology 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 3: Chemistry 1 – topics 1-4**

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

#### **Paper 4: Chemistry 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

### Physics Topics

#### **Paper 5: Physics 1 – topics 1-6**

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

#### **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

