** Topics and Assessments**

**Edexcel (9-1) - Combined Science GCSE**

**The specification can be found here:** [**http://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.html#tab-0**](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**

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| ***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**

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| ***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**

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| ***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 |