** 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
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**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
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**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
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