



Subject Information for Parents

Department: Science

Year: 10 *Single Science

What topics are covered during the year?

GCSE Chemistry: Edexcel 2011 GCSE Specification

GCSE Biology: Edexcel 2011 GCSE Specification

GCSE Physics: Edexcel 2011 GCSE Specification

During Year 10 Single Science students will study for their Chemistry GCSE initially:

Topics:

Chemistry Unit C1 - Chemistry in our world.

Topic 1 - The Earth's sea and atmosphere

Topic 2 - Materials from the earth

Topic 3 - Acids

Topic 4 - Obtaining and using metals

Topic 5 - Fuels

Chemistry Unit C2 - Discovering chemistry.

Topic 1 - Atomic structure and the periodic table

Topic 2 - Ionic compounds and analysis

Topic 3 - Covalent compounds and separation techniques

Topic 4 - Groups in the periodic table

Topic 5 - Chemical reactions

Topic 6 - Quantitative chemistry

Chemistry Unit C3 - Chemistry in action.

Topic 1 - Qualitative analysis

Topic 2 - Quantitative analysis

Topic 3 - Electrolytic processes

Topic 4 - Gases, equilibria and ammonia

Topic 5 - Organic chemistry

In addition to this students will also begin to study content for their GCSE in Physics although this will not be examined until Year 11. The first Physics unit is:

Physics Unit P1 - Universal Physics.

Topic 1 - Visible light and the solar system

Topic 2 - The Electromagnetic Spectrum

Topic 3 - Waves and the Universe

Topic 4 - Waves and the Earth

Topic 5 - Generation and transmission of electricity

Topic 6 - Energy and the future

What key assessments will take place?

All students will sit modular examinations for Chemistry in November, March and June. There is one 1 hour examination for each of the units and each exam is worth 25% of the overall grade. GCSE Chemistry exams for year 10 take place as follows:

C1- Chemistry in our world	Wednesday 7th November 2012
C2- Discovering Chemistry	Tuesday 5th March 2013
C3- Chemistry in Action	Thursday 23rd May 2013

The remaining 25% of the GCSE award is assessed by a Science Controlled Assessment. For this work students will have to plan and carry out an investigation, record their results and then write up a conclusion and evaluation under exam conditions. Controlled assessment work can really boost your child's grade.

Chemistry Controlled Assessment work will take place weeks beginning 9/11/12 and 16/11/12.

How can parents help their child's learning?

- ✓ log onto the Edexcel website for specification details and sample assessments;
- ✓ ask about the current topic and work and discuss this with your child;
- ✓ look at your child's exercise book. Help with tips on how to improve presentation;
- ✓ ask your child if any assessments are happening soon and if they understand what they have to do to be successful;
- ✓ encourage your child to revise for all of their Science exams, the website GCSE bitesize is very helpful and they can access revision materials by following this link:
<http://www.bbc.co.uk/schools/gcsebitesize/science/edexcel/>

Are there any trips, visits or special equipment needed?

For all Science lessons your child will need a pen, pencil, ruler and at times a calculator. Extra-curricular activities take place during the year and you will be informed of these as they arise.

It is also essential that they have Science Revision Guides for all three Single Sciences, these are available from school for 2:50 each.
