Bishop Wordsworth's School

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Dear Parents/Guardians

Year 11 Chemistry Revision Programme and Guidance

We will be starting our revision programme with the boys at the start of February. The revision programme will involve lessons focussed on recapping topics with the use of past paper questions and the AQA practice papers that the exam board have provided ahead of the new examinations in the summer.

Attached are the details of the revision programme which your son will be provided with. We thought it might be useful for you to see the details of the programme and be aware of the advice that your son is being provided with so that you are able to support and encourage him to use his revision time at home most effectively.

In preparation for the 'in school revision sessions' we are advising the boys do some preliminary revision. Those boys that do this preparatory work will find that they get the most out of the sessions in school. Boys could revise using the BBC Bitesize website, their textbooks or access the Independent Study Guides that we have produced which can be found on the file area of the school website. These Independent study guides have been produced for each topic and have links to the Fuse School video tutorials along with a number of past paper questions and mark schemes.

Yours sincerely

Dr Emma Baker
Director of Science/Head of Chemistry

Year 11 Chemistry Revision Timetable

This plan should be used as a general guide and will begin at the start of February

AQA Paper	Weekly Sessions	Topic area for Lessons with practice questions which may be completed for homework	Independent Study guides with questions and answers
1	1	• Particles, Atomic Structure and Periodic Table • Structures and Bonding **Homework**: AQA Practice Set 1 - Paper 1 and Paper 2.	• Atomic Structure and Periodic Table - Yr 9 Particles and Periodic Table • Bonding and Properties of Matter - Yr9 Structures and Bonding
	Half Term	**Complete:** AQA Set 1 Practice Paper 1 and Paper 2.	
1	2	• Mark AQA Set 1 Practice Paper 1 and Paper 2. • Energetics and Fuel Cells	• Energy Changes - Yr 10 Energetics
1	3	• Moles • Metals	• Quantitative Chemistry - Yr 10 and Yr 11 Moles • Moles Talking markschemes on the Q drive • Chemical Changes - Yr10 Metals
1	4	• Acids, Bases and Salts • Electrolysis	• Chemical Changes - Yr11 Acids, Bases and Ion Testing • Chemical Changes Yr 11 Electrolysis
1 + 2	5	• AQA Set 2 Practice Paper 1 • Ion Testing	• Chemical Analysis - Yr11 Ion Testing
2	6	• Go over AQA Set 2 Practice Paper 1 • Using Resources	• Chemistry of the Atmosphere and Using Resources - Yr10 Air and Atmosphere
1+2	7	• Practical Skills - Practical Skills Booklet to be completed during week	• Chemical Analysis - Yr 11 Practical Skills
	Easter	**Homework:** Practice Mixed up content of Papers 1 and 2	
2	8	• Mark and Go Over Practical Skills Booklet • Atmosphere and Air	• Chemistry of the Atmosphere and Using Resources - Yr10 Air and Atmosphere
2		• Go over Practice Papers 1 and 2 • Organic Chemistry	• Organic Chemistry - Yr10 and Yr 11 Organic
2		• AQA Set 2 Practice Paper 2 – do and mark in second lesson	
2		• Rates • Equilibria	• Rates - Yr 10 Rates • Extent of Chemical Reactions - Yr11 Equilibria

Paper 1 Topics	Paper 2 Topics
Particles, Atomic Structure and Periodic Table Structures and Bonding Energetics and Fuel Cells Moles Metals Acids, Bases and Salts Electrolysis	Atmosphere and Air Using Resources Chemical Analysis Ion Testing and detection Organic Chemistry Gateway specimen papers Organic Chemistry Rates Equilibria In addition, students will be expected to know and understand some basic concepts and principles from topics in paper 1: Atomic structure and the periodic table, Bonding, structure, and the properties of matter and Quantitative chemistry.

Required Practicals

- Required practical activity 1 - Salt preparation copper carbonate/copper oxide and sulfuric acid
- Required practical activity 2 - Titration to determine reacting volumes/concentration of unknown
- Required practical activity 3 - Electrolysis of aqueous solutions are electrolysed using inert electrodes.
- Required practical activity 4 - Investigate the variables that affect temperature changes in reacting solutions such as: acid plus metals, acid plus carbonates, neutralisations, displacement of metals
- Required practical activity 5 – The affect of concentration on the rates of reactions by a method involving measuring the volume of a gas produced/or a change in colour or turbidity (cloudiness)
- Required practical activity 6 - Paper Chromatography and Rf values
- Required practical activity 7 –Ion testing and flame tests
- Required practical activity 8 - Analysis and purification of water samples from different sources, including pH, dissolved solids and distillation.

What can you do to help yourself January to study leave?

Engage fully with the revision programme - Look at the topics covered each week and make sure that you focus your revision on those topics that week – plan this into your revision timetable. Do the past papers that you are given in class and for homework and use them to improve exam technique and identify problem areas. During this time you could use the following:

- The Independent Study Guides on the school website (file area) to recap the topics: http://www.bws-school.org.uk/Curriculum-Exams/Science/Files/Y11Files/ Once you have revised those topics have a go at the past paper questions within the guide. The most important thing is to mark the questions using the answers in the guide and then focus any necessary further revision on areas of poor knowledge or understanding.
- Textbook, Revision Book and Workbook
- BBC Bitesize https://www.bbc.co.uk/education/subjects/zs6hvcw

What can you do to help yourself during study leave?

- Go over the past paper questions and practice exams that you have done during the revision programme – the AQA Practise Papers 1 and 2 (Set 1 and 2) are going to be the most helpful in helping you to identify what each paper will be like – revise any tricky topics on those papers.
- Make sure that you revise the correct topics for Paper 1 and Paper 2
- Continue to use the resources above
- If you want to do any further practice papers then the legacy AQA GCSE Chemistry papers could be undertaken but bear in mind that the topics from paper 1 and paper 2 could be found on both papers and there won't be questions which assess your maths or practical skills in quite the same way – http://www.aqa.org.uk/subjects/science/gcse/chemistry-4402/past-papers-and-mark-schemes