

Yr 11 - Science Information for Study Leave

Before each of the morning exams the subject teachers will be available in school from 8am and at lunchtime prior to the afternoon sessions. This will be a time when you may sit and work quietly with members of staff around should you need to do any last minute clarification.

Physics

Paper 1 Energy Electricity Particle Model of Matter Atomic Structure	Paper 2 Forces Waves Electromagnetism Space Physics Questions in paper 2 may draw on an understanding of energy changes and transfers due to heating, mechanical and electrical work and the concept of energy conservation from the Energy and Electricity topics covered in paper 1.
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Additional Guidance

All details that could be included can be found in the Y11 Physics revision booklet on the Y11 Physics page of the website.

Useful websites are GCSE bitesize <https://www.bbc.com/education/examspecs/zsc9rdm> which has explanations and quizzes

Free science lessons <http://freesciencelessons.co.uk/> which has video explanations of all key topics and has now been updated to include all the topics in papers 1 and 2,

<http://www.physicsandmathstutor.com/physics-revision/gcse-aqa/> which has topic summary sheets and questions to try including the mark schemes.

In the Y11 Physics Files students can access past papers (with their mark schemes) for the legacy iGCSE but it should be noted that the content in papers 1 & 2 will not correspond to the content in the new specification paper 1 and 2 so should be used as consolidation of subject knowledge. In the Revision programme folder, students can find specific questions and mark schemes for each topic within the specification. There are also packs of past paper questions (under Homework Question Packs) that are organised with questions fitting to paper 1 or paper 2. Some have already been completed as HW but repeating can be helpful to ensure prior mistakes are eradicated and new knowledge has been learnt. Finally the file 'Some key definitions and explanations to learn' gives some simple wording of the key ideas that can be hard to explain in an exam.

Chemistry

Paper 1 Particles, Atomic Structure and Periodic Table Structures and Bonding Energetics and Fuel Cells Moles Metals Acids, Bases and Salts Electrolysis	Paper 2 Atmosphere and Air Using Resources Chemical Analysis Ion Testing and detection 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 (moles)
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Additional Resources

The Yr11 file area <http://www.bws-school.org.uk/Curriculum-Exams/Science/Files/Y11Files/> for Chemistry has resources which will be useful to you including:

- A revision checklist
- Folder of Independent study guides – they are useful video tutorial links and past paper questions and mark schemes. It is important that you mark the questions using the answers in the guide so that you are then able to focus any necessary further revision on areas of poor knowledge or understanding.

- Textbook, Revision Book and Workbook and also the revision sheets in the file area – there are revision sheets for each topic which have condensed notes.
- 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 IGCSE Chemistry papers are good. There are copies of these papers and mark schemes on the file area of the website. Please 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.

Biology

Paper 1	Paper 2
Cell Biology and microscopes including stem cells and mitosis Transport in and out of cells. Diffusion/Osmosis and Active transport. Digestion and Enzymes/Food tests Transport in animals. Heart/Blood/Circulatory systems/CHD and treatments Plant Transport. Phloem/Xylem/Transpiration and translocation Breathing Systems/gas exchange Respiration and exercise Photosynthesis Immunity and Communicable disease in animals and plants. Treating diseases/ drug development Non communicable diseases eg cancer Monoclonal antibodies	Homeostasis and response Nervous system including the brain and the eye Hormones Plant Hormones eg auxin Kidneys and excretion/dialysis Control of Blood sugar/diabetes and Temperature control Reproduction and fertility Genetics and inheritance Natural selection, variation, adaptation and evolution Ecology/food chains and populations Human impact on ecosystems

Additional Guidance

The Yr11 file area <http://www.bws-school.org.uk/Curriculum-Exams/Science/Files/Y11Files/> for Biology has resources which will be useful to you including:

- A revision checklist has full information of what is in each topic.
- Textbook, Revision Book and Workbook
- BBC Bitesize <https://www.bbc.co.uk/education/subjects/zs6hvcw>
- If you want to do any further practice papers then the legacy AQA Biology papers. There are copies of these papers and mark schemes on the file area of the website. Please 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.