

Preparation for Yr 13 - Chemistry Summer work

When you return in September you will be studying Transition Metals with Mr Rogers. With Dr Baker you will be studying Organic Chemistry. Organic Chemistry forms a significant part of the A Level course and we recommend that you spend some time consolidating the organic Chemistry that was undertaken in Yr12 so that you are ready to move onto the Yr13 Organic topic. To support students in their studies we are recommending that they spend some time, perhaps towards the end of the summer holiday ensuring that they revisit their linear studies. Where the resources are available on the file area of the school website for Yr12 and Yr13 Chemistry then the links to use are here:

<http://www.bws-school.org.uk/Curriculum-Exams/Science/Files/Y12Files/>

<http://www.bws-school.org.uk/Curriculum-Exams/Science/Files/Y13Files/>

All students should consolidate their understanding of Yr12 organic Chemistry by completing the 'Preparing for Yr13 Organic' study guide which can be found in the Yr13 file area. They should also prepare for the Yr13 Transition Metal topic by reading pages 54-58 of the textbook and going through the relevant section of the 'Electron configuration and Periodicity' Independent Study guide found in the Yr12 file area of the website.

Other suggested activities and resources which could be used to consolidate Yr12 Chemistry:

- Complete (and mark!) the AS OCR past papers: <https://www.ocr.org.uk/qualifications/as-and-a-level/chemistry-a-h032-h432-from-2015/assessment/#as-level>
- The textbook is excellent - this should be the key resource used - go over the work undertaken this year, make notes where understanding needs to be improved using the textbook. Undertake and mark the summary questions and end of chapter questions The end of chapter questions markschemes are here: <https://global.oup.com/education/content/secondary/series/ocr-a-level-sciences/alevel-sciences-for-OCR-student-book-answers/?region=uk>
- The workbook published by Pearson. 'Revise OCR AS/A Level Chemistry Revision Workbook' ISBN 9781447984320 is a good resource which students have found very helpful in previous years for use over the summer. These books are aimed at enabling students to consolidate the majority of their studies, rather than providing the stretch and challenge material that is required for those hoping to achieve an A* result.
- For students needing to improve their abilities with Chemistry calculations then this book is terrific having worked examples with further practice questions: Calculations in AS / A Level Chemistry by Jim Clarke
- The 'Independent study guides' and the SWGS F321 and F322 past papers could be used to practice exam technique – These can all be found on the website: <http://www.bws-school.org.uk/Curriculum-Exams/Science/Files/Y12Files/>
- BoomerChemistry online tutorials. A tutorial programme with videos, quizzes, notes and exam style questions with answers – The first year course comes at a cost of £29 each. A Review in 'Education in Chemistry' and from students who have used this resources have been positive.
<http://www.boomerchemistry.com/>