The idea with this bridging is work is that you will begin to explore some of the topics that we will study at A Level. Each task requires you to complete some research into a key topic and then complete an associated task. You should be aiming for approx. 45mins – 1hr of research per task before completing the work set. Remember to use your research to understand any topics you are unsure of. You may find some information at GCSE level too from text books etc. Your teachers have provided some useful links to help support your research into each topic.

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| Subject Name | A Level Chemistry | |
| Task Title | Task Description | Estimated Time |
| Retrieval questions and core maths skills | In the Transition from GCSE to A level booklet complete the first two sections (retrieval questions and core maths skills). These are expected prior knowledge for starting the A level course and will help you form a good foundation. | 2 hours |
| Balancing equations and the development of organic chemistry | Complete section 2- balancing chemical equations from the GCSE to A level booklet. Then, read through the worksheet on the development of organic chemistry and complete the application tasks | 2 hours |
| Oxidation states and redox half equations | Start by watching this video from Eliot Rintoul – he gives fantastic explanations on the topics covered in the AQA specification and will be well worth a watch throughout your course. He will introduce to you oxidation states and show you some tricky redox equations. <https://www.youtube.com/watch?v=imjB1D2Jgic&list=PL0yIQjy59R-BPjvbHYBTL1dtzc_CSUxAK>  Then, complete the worksheet on oxidation states and finally the worksheet on writing half equations. This is a topic that comes up in both the AS course as redox but also the A2 course in electrochemical cells and is a good topic to get under your belt early! | 2 hours |
| Rearranging equations, calculating and molar quantities | Complete section 3 and 4 from the GCSE to A level booklet.  Then select from the link below a video to watch from the rough science series. The scientists are stranded on an island and are having to use their problem solving skills and scientific knowledge to complete tasks. <https://www.dailymotion.com/playlist/x2igjq> | 2 hours |
| Percentage errors & yield, and nomenclature in organic chemistry | Complete section 5 from the GCSE to A level booklet.  Then, complete the worksheet on formulae of organic molecules. This is the fundamental basis to understanding organic chemistry and mechanisms- a great thing to secure now before you start the course! | 2 hours |
| Useful resources | Eliot Rintoul YouTube channel: <https://www.youtube.com/channel/UCps4gUjfZsu6-b-7mwK41lg>  Chemrevise: <https://chemrevise.org/revision-guides/>  Doc Brown: <http://www.docbrown.info/page13/page13.htm>  Seneca Learning: <https://app.senecalearning.com/courses?Price=Free>  Kerboodle: You should be able to find the online textbook if you click on the AQA A level Chemistry Course on your current kerboodle log in. | |
| How to submit | Please email your work to: [rebecca.muhley@verulam.herts.sch.uk](mailto:rebecca.muhley@verulam.herts.sch.uk)  Or  Upload to the Google Drive which can be found here | |