

Richard Hale Chemistry pre-course assignments

Assignment number	Work
1	Familiarise yourself with the content of AQA A level chemistry course, course code 7405. Visit the AQA website and have a look at the Chemistry subject page on the Course Options tab so you can read about the content of the course.
2	Obtain a copy (electronic or hard copy) of the AQA A Level chemistry specification, from the AQA web site, (also uploaded) and familiarise yourself with the course content and how you will be assessed.
3	Watch the Gresham College lecture on the periodic table (location given below). This talk coincided with the UNESCO International Year of the Periodic Table. Then write a commentary on what you watched. https://www.gresham.ac.uk/lectures-and-events/periodic-table-150
4	Produce a timeline to show how the modern periodic table was produced, include who in your opinion, were the key individuals.
5	Produce a poster as outlined on the powerpoint (atomic structure task also uploaded) to enable you to appreciate that knowledge and understanding of atomic structure has evolved over time.
6	Read up and familiarise how to do a titration. Then write out your own method that you could follow, including labelled diagrams, details of the indicator, colour change and an example calculation.
7	Find out what is meant by sustainability and then strategies for how the chemical industry maximises the yield of chemical reactions.
8	Have a go at drawing lab equipment electronically using the web site below. On this website you can have some fun drawing lab diagrams using lab equipment. https://chemix.org/
9	In A-Level chemistry there are 12 practicals that all students studying chemistry must undertake. Students are assessed for competencies. Have a look through the practical handbook (link below) which outlines the practicals and the competencies and make notes on the practicals. Read over pages 23-24 and understand the skills you will be assessed on during A level Chemistry. https://filestore.aqa.org.uk/resources/chemistry/AQA-7404-7405-PHBK.PDF
10	Visit the Royal Society of Chemistry web site and watch the video on the flame tests, make notes on the tests. https://edu.rsc.org/resources/ri-christmas-lectures-2012-group-1-flame-/1120.article