

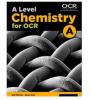
Welcome to A Level Chemistry

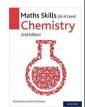
- What you can read:

'A Level Chemistry for OCR A' by Rob Ritchie and Dave Gent

'Maths Skills for A Level Chemistry' by Emma Poole and Dan McGowan

'OCR A Level Chemistry Specification' – link below:





https://www.ocr.org.uk/Images/171750-specification-accredited-as-level-gce-chemistry-a-h032.pdf

- What you can watch:

Below are some of the skills/topics that you will be learning when you join us at Burnley College. Here are some videos for you to watch to get you started on those topics and/or skills:

- Atomic Structure https://www.youtube.com/watch?v=n2Nvmyr6DW8
- Electron configuration https://www.youtube.com/watch?v=ZpapQPcgw7w
- Balancing equations https://www.youtube.com/watch?v=TGFkvy8vubw
- Significant figures https://www.youtube.com/watch?v=l2yuDvwYq5g
- Rearranging equations https://www.youtube.com/watch?v=oZ-k71dW6do

- What are some of the topics and skills that you will cover:

Below are some of the topics and skills that we will cover in September and October:

Topics	Relevant skills to the topic
Atomic structure	- Rearranging equations
	- Significant figures
	- Algebra
Compounds, formulae and	- Balancing and writing equations
equations	- Recalling names and formulae
	of ions
Amount of substance	- Rearranging equations
	- Significant figures
	- Algebra
	- Converting units e.g mg to g
	- Using ratios, fractions and
	percentages
	- Practical skill, determine the
	relative atomic mass of Mg
Acids	- Practical skills, complete a
	titration
	- Balancing equations

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Tasks that you can do to prepare you:

<u>Task</u>	Link to the course/specification
Task 1.	2.1.1 Atoms and isotopes
Watch the video on atomic structure and create a revision map of the structure of an atom and how that links to the periodic table.	This topic builds directly from GCSE Science expanding on your knowledge of the structure of the atom and it's link to the periodic table.
Determine the number of protons, neutrons and electrons in ²³ Na, ²⁴ Na and ²⁴ Na ⁺ . Make sure you make note on how you got to the answer.	We will look at how this information is gathered experimentally and use this to calculate means.
Task 2.	2.1.2 Compounds, formulae and equations
Research the formulae for the following ions and compounds; 1. Sulfate and sulfuric acid 2. Phosphate and phosphoric acid 3. Carbonate 4. Nitrate and nitric acid 5. Ammonium and ammonia Create revision cards (Quizlet is a good app to use) to keep for the duration of the course. Use these to commit the formula of these ions/compounds to memory – get family members to test your recall.	This topic builds on GCSE Science knowledge of word equations and formulae. In this topic you gain basic chemical skills such as writing chemical formulae and constructing equations. These skills will be used consistently throughout the two year course.
Task 3	2.1.3 Amount of substance
Watch the Amount of Substance video and write down all the new equations that encounter. Again make revision cards to keep for the duration of the course.	You may/may not be familiar with aspects of this topic depending on wether you did triple or combined science. Don't worry if not, by the time we have
Once you have done the above, make sure you can rearrange the equations confidently making different parts of the equation the subject.	finished this topic you will be masters of calculating chemical quantities using different chemical equations.

- Contact information

If you have questions regarding this or any other A Level course at Burnley College, please contact alevels@burnley.ac.uk or call 01282733373

We look forward to seeing you in September.