



Subject		Chemistry		
Title/Topic		Format	Length	WC
Paper 1 – Chemistry		Written Assessment	50 minutes	5 December
Paper 2 – Chemistry		Written Assessment	50 minutes	5 December

In this Advent assessment I will be asked to show I can...**Paper 1**

- Identify isotopes and use abundance data to calculate relative atomic masses.
- Deduce the number of subatomic particles for given atoms and ions of an element.
- Construct balanced chemical equations and use state symbols
- Calculate amounts of substance in moles when provided with mass, volume or concentration data.
- Determine empirical formula and molecular formula when given composition by mass and percentage composition data
- Use oxidation numbers to identify species which have been oxidised or reduced
- Define oxidation and reduction in terms of loss or gain of electrons
- Describe how to carry out and be able to analyse the results of a titration
- Describe and explain the organisation of elements on the periodic table
- Explain trends in ionisation energy across a period and down a group

Paper 2

- Use the ideal gas equation to calculate quantities including volume, moles, pressure and temperature.
- Calculate the formula of a hydrated salt from experimental results
- Carry out reacting mass calculations.
- Comment on the sustainability of a reaction from atom economy and percentage yield data
- Determine the arrangement of electrons in atoms or ions of an element
- Predict bond angles and the shapes of simple molecules
- Identify the bonding in a compound and represent it using dot and cross diagrams
- Explain trends in reactivity for group 2 and 17 elements
- Explain the properties of matter including melting and boiling points and link these to structure and bonding
- Explain on the anomalous properties of water



What should I do to revise and prepare for this assessment?

To prepare for this assessment:

1. Ensure you have reviewed material covered in lessons and attempted summary questions
2. Attempt exam questions in the text book – answers available on student drive
3. Use your revision guide.
4. Make flash cards for key knowledge and definitions.

What useful websites/resources could I use to help me prepare?

Seneca learning

[Free Homework & Revision for A Level, GCSE, KS3 & KS2 \(senecalearning.com\)](https://www.senecalearning.com/)

Your revision guide – use the revision guide suggested to you by your teacher.

e.g. OCR chemistry : https://www.amazon.co.uk/OCR-Level-Chemistry-Revision-Guide/dp/0198351992/ref=sr_1_8?dchild=1&keywords=ocr+chemistry+a+revision+guide&qid=1634050174&sr=8-8

CGP work book: https://www.amazon.co.uk/New-Level-Chemistry-2018-Practice/dp/1782949224/ref=pd_bxgy_img_1/261-7161097-6731553?pd_rd_w=5ONYR&pf_rd_p=c7ea61ca-7168-47e3-9c8b-d84748f5b23c&pf_rd_r=8EQ3M3FC7D1EPWVZJ4XR&pd_rd_r=a4a78a4b-b279-4bd0-842e-9faff976a75a&pd_rd_wg=EBXSa&pd_rd_i=1782949224&psc=1