



Chemistry



How will the tasks support your understanding of the course? By completing this work you will begin to gain an understanding of two of the key themes that run throughout every topic of the syllabus.

What skills will you begin to develop by completing this work? The first task will help you learn fundamental skills including mathematical competency, that accounts for 20%, and then deducing chemical formula and balancing equations. During the second task you will apply the fundamental skills from the first task in calculating the amount of substances area and atom economy.

TASK 1 - Fundamentals

Purpose - a practical chemist must be proficient in standard form, significant figures, decimal places, SI and unit conversion. To determine chemical formula and balance equations.

Resources - use the link to the A level chemistry website

<https://www.aqa.org.uk/resources/science/as-and-a-level/teach/maths-skills-briefings>

[The mole - Higher - Higher tier only calculations - Edexcel - GCSE Chemistry \(Single Science\) Revision - Edexcel - BBC Bitesize](#)

Task - complete the question sheet on mathematical skills aiming for A level standard and then the chemical formula and balancing equation practice

Support

[AQA | AS and A-level | Chemistry | Mathematical requirements and exemplifications](#)

[AQA | Maths skills briefings for A-level sciences](#)

<https://www.my-gcse-science.com/tips-writing-chemical-formulae/>

<https://www.my-gcse-science.com/balancing-chemical-equations/>

TASK 2 – Application of Chemistry

Purpose - amount of substance or moles is a fundamental of all chemistry topics. In chemistry, you sometimes need to rearrange / change the subject of an equation to find the desired values then determine percentage yield and atom economy, using the steps described on the worksheet.

Resources

[A Level Chemistry Revision "Calculating the Amount of Substance from Mass" - Bing video](#)

Use BBC bitesize
(<https://www.bbc.co.uk/bitesize/guides/z9fwrwx/revision/5>)

Task - complete the booklet

Support

[A Level Chemistry Revision "Calculating the Amount of Substance from Mass" - Bing video](#)

https://docbrown.info/page04/4_73calcs14other2a.html

TO DEEPEN YOUR UNDERSTANDING



Use the AQA website for A level chemistry for an overview

<https://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405/introduction>



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Seneca learn www.senecalearning.com class code **o4aub3ch5m** GCSE

Issac physics www.isaacphysics.org class code 2LYJMH A level



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