



Wallington High School for Girls

Sixth Form

Subject: Chemistry

Course information:

Chemistry at Wallington is split into 16 units each covering different aspects of Physical, Inorganic and Organic Chemistry. You will also be required to undertake 15 assessed practical tasks; providing evidence of the skills you have utilised and developed in each one. The course is linear with three external examinations:

Paper 1: Physical and Inorganic [35%]

Paper 2: Physical and Organic [35%]

Paper 3: Synoptic paper and practical techniques [30%]

Summer Transition Work:

A Level Chemistry – Transition Booklet Instructions

- Complete the **Structure and Bonding Fundamentals** and **Physical Chemistry Fundamentals** question sets **without using any notes, textbooks, websites, AI tools, or other resources**. This will provide an accurate picture of your current knowledge and help you identify any gaps that need addressing before September.
 1. Once completed, mark your work carefully. Any topic on which you do not achieve **100%** should be reviewed using the resources provided in the transition booklet.
 2. **At the start of the year you will be asked to upload your work to Teams.**
 3. **Need help?**
If you find any topics difficult, please refer to this YouTube channel <https://www.youtube.com/@Cognitoedu> for help with the tasks.
 4. **Why this matters:**
The content in this booklet covers essential GCSE knowledge that forms the foundation of A Level Chemistry. A strong understanding of these topics is vital for a successful transition into the course.

Approximate completion time: 4- 6 hours

Suggested Summer Wider Reading: The Disappearing Spoon– Sam Kean

A fun, fascinating journey through the periodic table, full of weird stories and scientific history.

ISBN number: 0316051632



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Chemistry KS4 to KS5 Transition Work Instructions

To support your transition from GCSE to A Level Chemistry, you must complete the **Structure and Bonding Fundamentals** and **Physical Chemistry Fundamentals** question sets **without using any notes, textbooks, websites, AI tools, or other resources**. This will provide an accurate picture of your current knowledge and help you identify any gaps that need addressing before September.

Once completed, mark your work carefully. Any topic on which you do not achieve **100%** should be reviewed using the relevant sections of the **A Level Chemistry Transition Work Booklet**. If you require further support with GCSE content, the [GCSE Revision Videos from Free Science Lessons](#) are an excellent resource and can be used to revisit topics you find challenging.

The tasks included in this transition work cover knowledge and skills that you should be able to recall confidently and apply quickly, as they form the essential foundations of A Level Chemistry. Securing this knowledge now will allow you to focus on developing deeper understanding and applying your chemistry skills to more complex problems when you begin the course in September.

Whilst much of Chemistry involves understanding concepts and applying knowledge to unfamiliar situations, there are also many facts, definitions, equations and conventions that must be committed to memory. Examples include common ion charges, molecular formulae of key substances, reaction types, essential chemical equations, and the formulae required for chemical calculations. You should also know where to locate key information quickly, such as within the periodic table. Having secure recall of these fundamentals will significantly reduce cognitive load and allow you to focus on the more challenging aspects of A Level Chemistry.

If you completed **Combined Science (Double Award)**, you will not have studied organic chemistry, titration calculations or the titration practical method in detail. It is therefore essential that you learn these topics using the additional resources provided in the folder (**Additional Chemistry Knowledge for A Level Preparation**) before the start of the course.

All students will be required to upload evidence of their completed work at the start of Year 12. During the first few weeks of the course, your teachers will quickly be able to identify whether these fundamental concepts and skills are secure. Students who do not have this knowledge in place often find it difficult to access new content and make the progress required at A Level. Investing time in mastering these fundamentals now will give you the best possible start to the course.