

### What is Chemistry A Level?

Chemistry is the study of why reactions happen. Chemistry is fundamental to life, explaining phenomena from how we can power the modern world from, to why we can see colour, to how DNA and proteins interact.

Throughout your studies you will learn the chemistry of topics ranging from the synthesis of aspirin to the interactions that have shaped life on Earth.

You should consider Chemistry A level if you enjoy both conducting and explaining practical investigations and want to delve deeper into the “why” behind every chemical reaction.

### WHAT WILL I LEARN?

#### What content will I cover?

Paper	Topics	Weighting	When?
1:	<ul style="list-style-type: none"><li>✓ Equilibria</li><li>✓ Energetics</li><li>✓ Redox chemistry</li><li>✓ Transition metals</li></ul>	30% of A-level	Year 13
2:	<ul style="list-style-type: none"><li>✓ Kinetics</li><li>✓ Organic chemistry</li><li>✓ Analytical techniques</li></ul>	30% of A-level	Year 13
3:	<ul style="list-style-type: none"><li>✓ Synoptic paper</li></ul>	40% of A-level	Year 13

Experimental techniques are taught throughout the course and assessed across all papers.

#### How will I be assessed?

You will take all three A Level examinations at the end of Year 13. All of the exams are two hours long.

### What skills will I develop?

- ✓ Knowledge and understanding of chemical reactions
- ✓ Application of knowledge and understanding of scientific ideas, processes, techniques and procedures
- ✓ Analysis of scientific evidence to develop procedures and make informed judgements.

### WHERE CAN CHEMISTRY A LEVEL TAKE ME?

If you love Chemistry A level you might want to study chemistry, chemical engineering, pharmacology, biochemistry, medicinal sciences. Many chemists also go into patent law.

Chemistry A level is also an excellent grounding for any degree discipline.

Chemistry A level is required for medicine, dentistry and veterinary science degrees.

### WHAT DO I NEED TO ACHIEVE?

You need to achieve an A/A\* in chemistry GCSE if you study triple science with separate sciences.

You need to achieve an A/A\* in core science, additional science and further additional science if you study triple science.

You need to achieve an A/A\* in core science and additional science if you study double science.

### RECOMMENDED READING:

Seven elements that have changed the world - John Browne  
What if?: Serious Scientific Answers to Absurd Hypothetical Questions - Randall Munroe



### HOW CAN I FIND OUT MORE?

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