A Level Chemistry at RPS

Class of 2023

Why study chemistry?

One of the most **respected** and **impressive** A-Levels to have, in both science and non-science related careers.

Chemistry plays a role in almost every action on earth, in every object we touch. If you're interested in **understanding, contributing to and improving the world around you**, then Chemistry will open doors you may not have even thought of.

Why study chemistry?

Great opportunity to develop your **logic, problem-solving, numeracy and creativity**, whilst preparing you for the most challenging and competitive degrees and careers.

Chemists are 15% **more likely to be employed** than other careers (and they're **paid more** too!). Over 70% will enter a **professional** career.

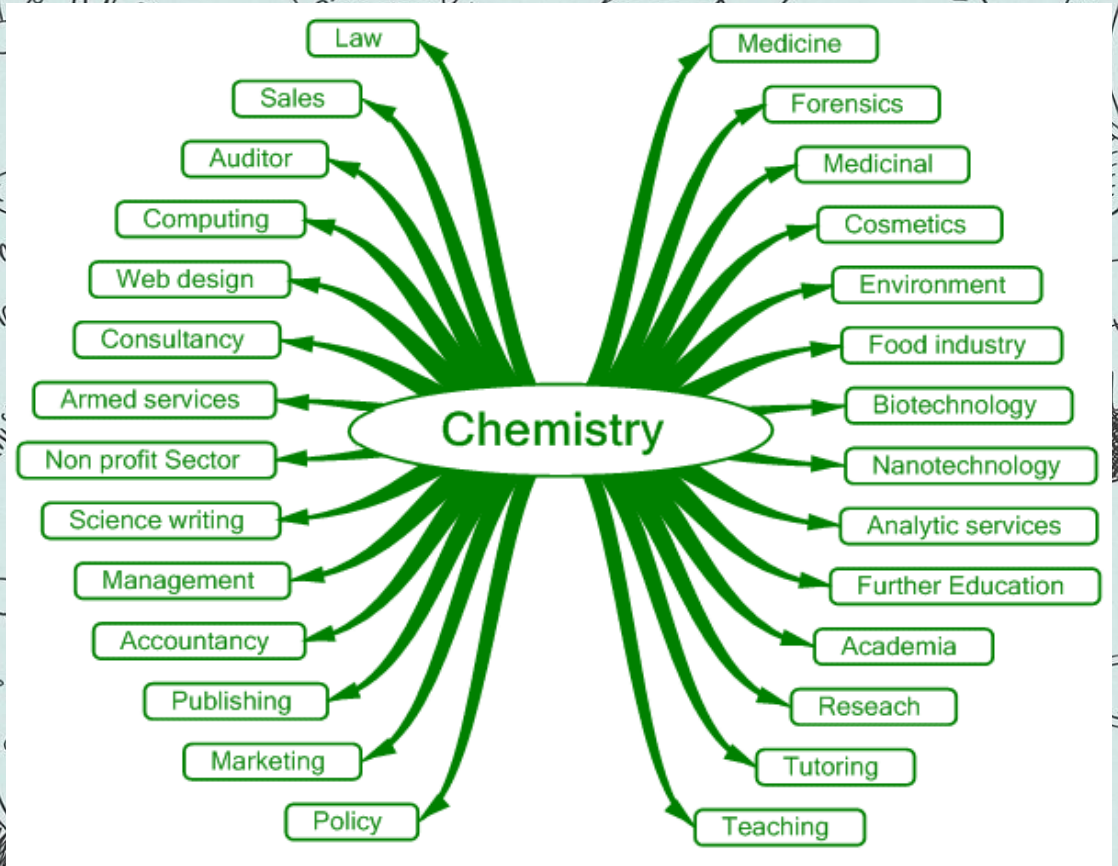
photo??

The A-Level Chemist at RPS

- **Organised** - keep on top of your notes
- Motivated to **study outside of lessons**
- **Ask for help** when you need it
- **Revise for every test** as if it counts towards your final grade - it's the only way to make progress
- **Resilient** - Chemistry is not easy and you won't always hit your target grade on the first go at a topic
- In it for the long haul - **it will take the whole 2 years of hard work**, to get to the grade you'd like

BUT IT IS SO, SO WORTH IT

Where can Chemistry take you?



OCR Chemistry A - Year 12 Modules

Module 2 – Foundations in chemistry

- Atoms, compounds, molecules and equations
- Amount of substance
- Acid–base and redox reactions
- Electrons, bonding and structure

Module 3 – Periodic table and energy

- The periodic table and periodicity
- Group 2 and the halogens
- Qualitative analysis
- Enthalpy changes
- Reaction rates and equilibrium (qualitative)

Module 4 – Core organic chemistry

- Basic concepts
- Hydrocarbons
- Alcohols and haloalkanes
- Organic synthesis
- Analytical techniques (IR and MS)

OCR Chemistry A - Year 13 Modules

Module 5 – Physical chemistry and transition elements

- Reaction rates and equilibrium (quantitative)
- pH and buffers
- Enthalpy, entropy and free energy
- Redox and electrode potentials
- Transition elements

Module 6 – Organic chemistry and analysis

- Aromatic compounds
- Carbonyl compounds
- Carboxylic acids and esters
- Nitrogen compounds
- Polymers
- Organic synthesis
- Chromatography and spectroscopy (NMR)

OCR Chemistry A - The exams

Periodic table, elements and physical chemistry (01) 100 marks 2 hours 15 minutes written paper	**37%** of total A level
Synthesis and analytical techniques (02) 100 marks 2 hours 15 minutes written paper	**37%** of total A level
Unified chemistry (03) 70 marks 1 hour 30 minutes written paper	**26%** of total A level

Practical Endorsement in chemistry (04)

(non exam assessment)

Entry requirements

Minimum of GCSE grade 6 in Chemistry

or

Minimum of GCSE grade 6,6 in Combined Science

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and **Minimum** of GCSE grade 6 in Maths

and **Minimum** of GCSE grade 5 in English Language

Questions?

Email me - h.budarkiewicz@roundwoodpark.co.uk

Come speak to me in the Science office

Speak to your GCSE Chemistry teacher

Ask the Sixth Formers session - watch this space for more details soon!