Welcome to A Level Chemistry!

Your course

You will be studying the OCR A Chemistry course (course code H432) . Details of the specification and course assessment can be found here:

https://www.ocr.org.uk/images/171720-specification-accredited-a-level-gce-chemistry-a-h432.pdf

We encourage you to become familiar with the course specification as soon as you start your course in September.

Summer bridging work

Here are some tasks for you to complete over the summer holidays to make sure you expand on your current skills. You will need to hand in/ present / be tested on this work during your first week in September at RPS.

TASK 1: Chemistry TED talk report

A level lessons will also involve a lot more discussion than at GCSE. To get the most out of your studies, you should take an active interest in the subject. This would require you to use additional resources, both print and online to read around the subject and familiarise yourself with the most recent developments in the field.

A very interesting resource and great source of inspiration is TED https://www.ted.com/talks

Your task is to select a TED talk related to Chemistry and create a report on the TED talk. You will need to take notes as you watch the talk, research around the topic afterwards and present your research in a written report.

Your report should be typed and needs to contain references to your resources through a bibliography at the end.

The report should be approximately 2 A4 pages long, in size 11 font.

Please bring a hard copy of your report on your first day.

TASK 2: The world's most influential chemists

Conduct some research into influential chemists (either dead or alive), who have shaped the world we live in today. They could be a famous Nobel-prize winning Chemist, or they could not have got the recognition they deserve for their work.

Once you have chosen your chemist, you need to make an A4 biography poster, which is colourful and attractive to look at and (potentially) be displayed in our labs. It should include:

- a picture of your chemist
- a brief set of facts on their personal life
- a detailed, scientifically-written section on their chemistry work
- a section on how their work impacts today's society and it's potential impact in the future

Please bring a hard copy of your influential chemist biography / poster in on your first day.

TASK 3: Introduction assessment

In your first week of term, you will sit an assessment to test you on the core GCSE knowledge we expect you to have carried over from Years 10 & 11.

You should use your GCSE work, exercise books, revision flashcards etc to help you prepare for this. Please note - you don't need to learn any A Level content!

The main areas of your focus should include:

- atomic structure
- periodic table
- bonding and intermolecular forces
- chemical reactions and equations
- energy changes
- rates of reaction
- chemical equilibrium
- basic chemical tests for ions and gas

The following websites may be useful to your revision:

https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb

https://www.physicsandmathstutor.com/chemistry-revision/gcse-aqa/

https://www.savemyexams.co.uk/gcse/chemistry/aqa/18/revision-notes/

https://www.youtube.com/watch?v=fN8kH9Vvqo0&list=PLidqqIGKox7WeOKVGHxcd69kKqtwrKl8W

https://www.youtube.com/watch?v=6k3ENcjOYos&list=PL7O6CcKg0HaGhn5E_LwNPH69bagsYQaJs