

## Welcome to A level Chemistry!

### Meet the team



Dr. I Saadoune PhD Physics & Chemistry

The department has two specialist teachers. You'll be supported and guided throughout your journey in A Level Chemistry.



Mr. Y Hafesji BSc (Hons) Pharmaceutical Sciences

You will be challenged and will develop analytical and problem solving skills.

Studying Chemistry automatically makes you into a more interesting character.

Staff and students form a tightly knit community. We work hard together to become successful.

We can use what we learn in chemistry to understand the world around us, and understand its Chemistry.

#### What is Chemistry ?

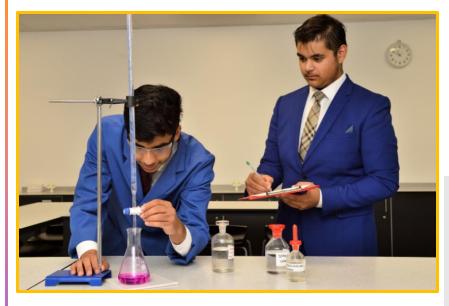
Chemistry is the study of **matter** and the **chemical reactions** between substances. Chemistry is also the study of matter's composition, structure, and properties.

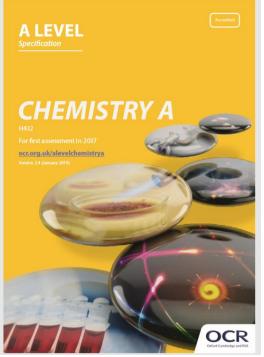
#### By the end of this course you will:

- Develop essential knowledge and understanding of different areas of the subject and how they relate to each other
- Develop and demonstrate a deep appreciation of the skills, knowledge and understanding of scientific methods
- Develop competence and confidence in a variety of practical, mathematical and problem solving skills
- Understand how society makes decisions about scientific issues and how the sciences contributes to the success of the economy and society.



## What modules will I be studying?





The full A level specification can be downloaded here:

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

#### **Content Overview**

Content is split into six teaching modules:

- Module 1 Development of practical skills in chemistry
- Module 2 Foundations in chemistry
- Module 3 Periodic table and energy
- Module 4 Core organic chemistry
- Module 5 Physical chemistry and transition elements
- Module 6 Organic chemistry and analysis



### ❖ What skills will I develop ?

- Chemistry is a practical subject and the development of practical skills is fundamental to understanding the nature of chemistry.
- You will have opportunities to develop the fundamental skills needed to collect and analyse experimental data. Skills in planning, implementing, analysing and evaluating data.
- Practical skills are embedded throughout all the content of the course.

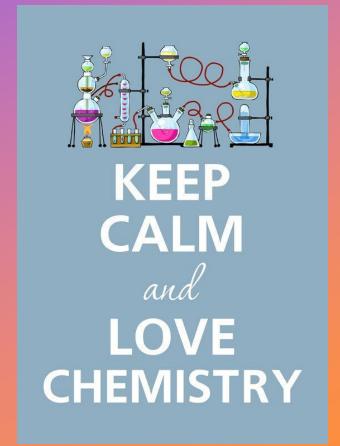
#### MODULE 1 - DEVELOPMENT OF PRACTICAL SKILLS IN CHEMISTRY

1.1 - PRACTICAL SKILLS ASSESSED IN A	A WRITTEN EXAMINATION			
PAG 1	Moles determination			
PAG 2	Acid-base titration			
PAG 3	Enthalpy determination			
PAG 4	Qualitative analysis of ions			
PAG 5	Synthesis of an organic liquid			
PAG 6	Synthesis of an organic solid			
PAG 7	Qualitative analysis of organic functional groups			
PAG 8	Electrochemical cells			
PAG 9	Rates of reaction - continuous monitoring			
PAG 10	Rates of reaction - initial rates			
PAG 11	pH measurement			

PAG 12: Research Skills

#### Formal Assessment

Component	Marks	Duration	Weighting	
Periodic table, elements and physical chemistry (01)	100	2 hour 15 mins	37%	Assesses content from modules 1, 2, 3 and 5
Synthesis and analytical techniques (02)	100	2 hour 15 mins	37%	Assesses content from modules <b>1</b> , <b>2</b> , <b>4</b> and <b>6</b>
Unified chemistry (03)	70	1 hour 30 mins	26%	Assesses content from modules 1 to 6
Practical endorsement in chemistry (04)	-	-	-	-

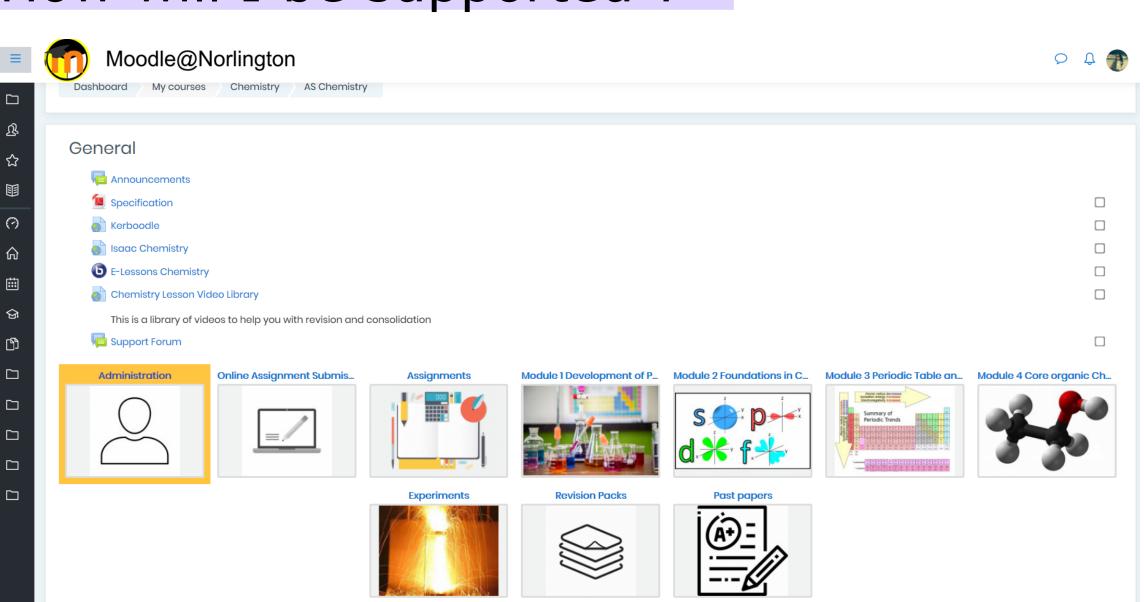


### Assessments throughout the course

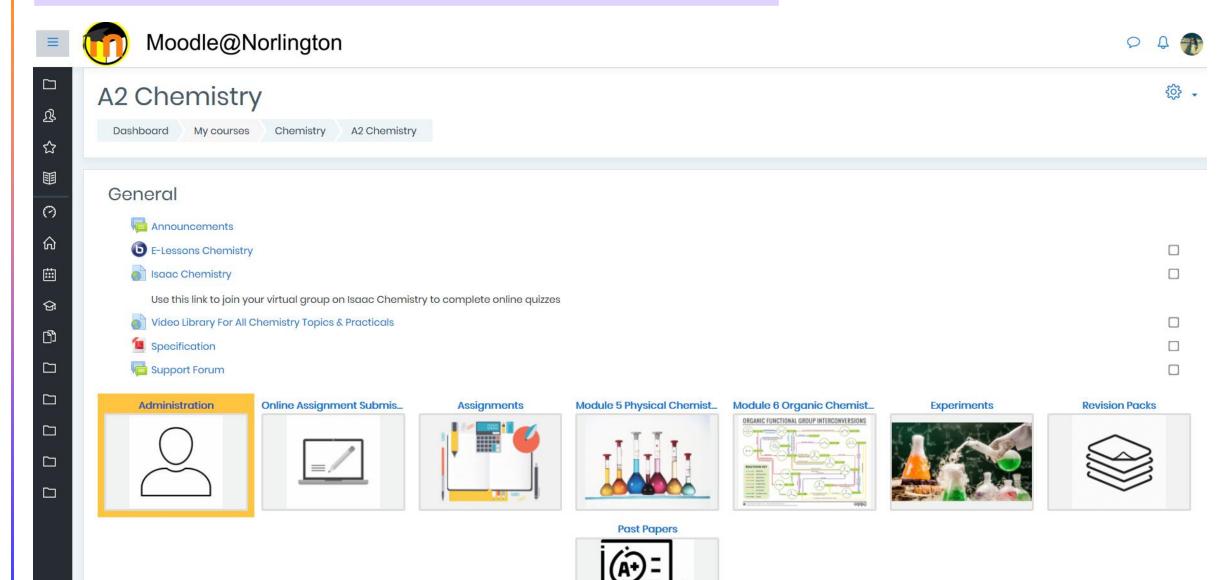
- You will be assessed multiple times and through multiple means throughout the course. These may include, but are not limited to; assignments, online quizzes, online exams, mock exams, practical skills, report writing.
- We use Moodle VLE (Virtual Learning Environment) for most of these assessments, as well as providing support materials throughout the course.



### How will I be supported?



### How will I be supported?



### Timely and regular feedback

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◆ PAG 8 Electrochemical Cells Model Results

Keywords Revision Practice on Quizlet >

Display replies in nested form

♦ Move this discussion to ... 
♦

Move



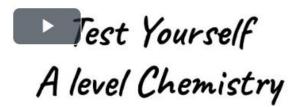
#### Electrochemistry assignment feedback

by Iman Saadoune - Sunday, 22 November 2020, 12:59 AM

Dear A level students,

The electrochemistry assignment is marked .. please use the marksheme in the assignments folder to mark your work and include corrections from the mark scheme ..

Also you can watch this



#### Electrode Potentials 1

to test your understanding of this topic further ..

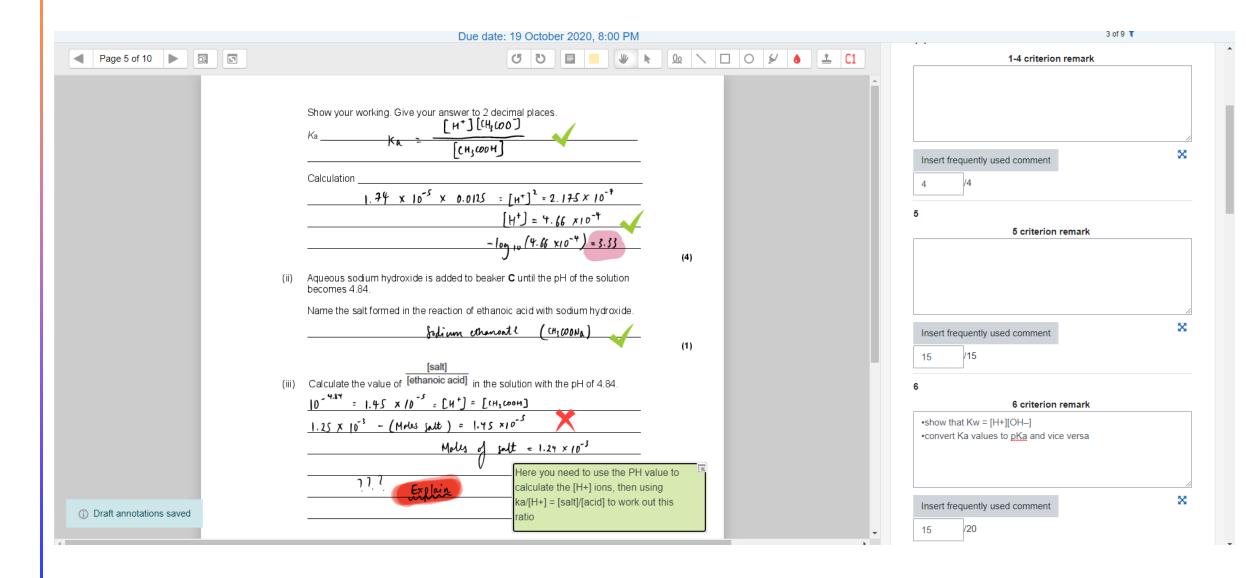
Main areas to improve on: Descriptions of half cells, explanations of the shift to redox equilibria and Redox back titrations ..

keep practicing questions especially those in the tutorial redox booklet .. You will get better at it with more practice ..

Kind regards

Dr Saadoune

### Timely and regular feedback



### What background do I need?



An interest in the properties of matter and how it interacts. An enthusiasm for practical science and experiments

Grade 6 or above at GCSE Chemistry, Grade (6,6) in Combined science and GCSE Maths, and grade 5 in English language and literature

Competent mathematical skills: you need to be confident in presenting data in graphs and performing multisteps calculations











- Chemical Industrial <u>Placement</u>
- Head of Chemistry, Teacher





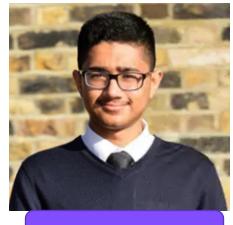






#### WHERE WILL CHEMISTRY TAKE ME?

### The classes of 2019 and 2020



Medicine





Pharmacy, Kingston University

Kingston University London



Chemical Engineering UCL

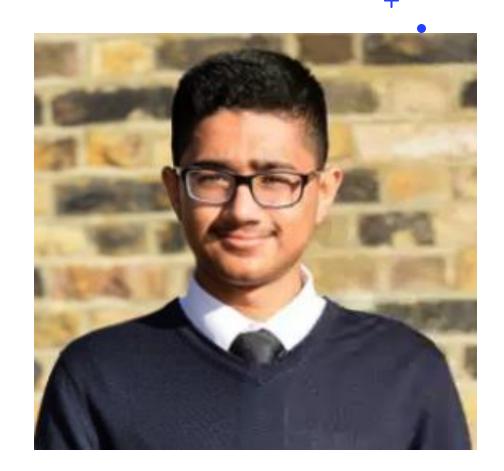


# What do Norlington Chemistry Students Say?

"I came to Norlington for sixth form due to my past experience during secondary school. The warm-hearted and loving nature of the teachers made me feel comfortable to trust the teachers. It allowed me to get personalised attention from the teachers whilst also being in small classes so if i didn't understand something the teachers would be quick to help.

I chose to study chemistry as it was my most preferred science out of the three and I also needed it for my university choice in the future. Nevertheless, due to my past experiences with the teachers I felt comfortable taking on a difficult subject like this as I would get the support I need. I enjoyed the practicals and practicing the questions as in chemistry there is little content so practice really helped me understand harder questions. Practicals were of great use also as I got to see and understand them so I could apply this to my tests. I also enjoyed the personal connection with the teachers, this made me feel so comfortable.

I wish I knew the amount of effort required to be successful in this subject as the jump from GCSE and A-level is quite daunting. So then I would be more mentally prepared and not stress as much when coming close to important exams. Also especially for chemistry it would be useful to make sure the student understands that the math questions can vary and be quite difficult so extra studying is required." Umar Faruq Y13



# What do Norlington chemistry students say?

"I chose Norlington because I knew it had very good teachers who had taught me in secondary school. I also knew that the classes were going to be small and this proved to be very useful as I got individual attention from my teachers. Having small classes also meant that revision could be tailored to suit every students needs and that content can be finished quicker. I chose to study A level chemistry because it was one of my favourite subjects in GCSE.

I chose to study chemistry for A level as it is a very fun subject and lots of problem solving. Fun lessons as well with small classes enabled space for good conversations. There was also lots of fun experiments as well and lots of useful skills learnt that I learnt.

I wish I knew that I should have not messed around too much in year 12. There is a lot of content and thinking back I can only advise myself to stay on top of the it and make sure I understand every lesson before the next one. This would've been very useful as it would've meant that I would not have been overloaded with work in year 13. " Moonis Y13



### **Q & A**

If you can any question please email me on:

Dr Saadoune

isaadoune@norlington.school



