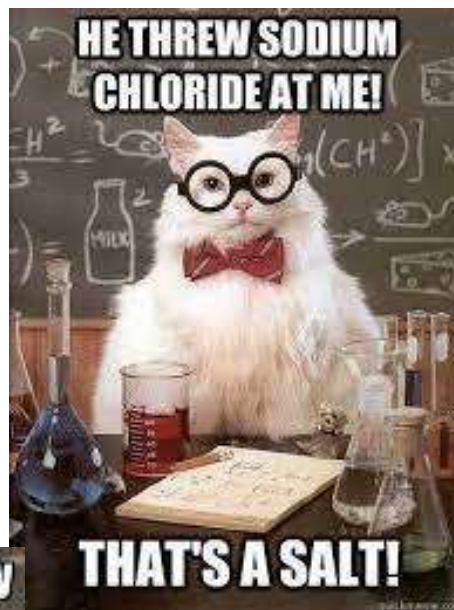
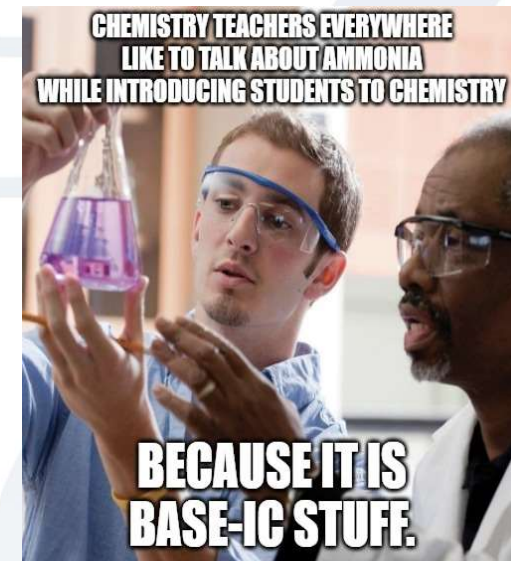


1 in 3 people will read this and go to

memes.com



I would tell more chemistry jokes



Parade

6

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CHEMISTRY



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This evening we
are going to
tell you about:

- Course structure
- Assessment
- Extra resources
- Potential degree routes from the A-Level?
- 100 min lessons
- Subjects that work well with this subject?



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What our students say:

Loads of practicals with dangerous chemicals – what's not to love...

I really didn't expect it, but chemistry has become my favourite subject.

Chemistry might be hell, but it's worth it AND the teachers keep me alive!

They lie to you at GCSE... wait till you get to A Level, that's when the real fun starts!

I've switched my UCAS course to straight chemistry, it's just got to be done.



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Chemistry A level

- Edexcel
- A level only – external exams in year 13 only. We have formal internal assessments in year 12 plus end of topic tests.
- Six x 100-minute lessons per cycle in year 12 and in year 13.



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What are lessons like?

- Flipped Learning - students come to the lesson having read and made notes on current topic from their textbook.
- Remember task: Review previous knowledge and/or skills.
- Teacher goes through content, lots of probing questioning/discussion. Students add to their notes and ask questions to clarify their understanding.
- Pupil learning includes:
 - Collaboration on large whiteboards
 - Self-assessment using mini whiteboards
 - Reciprocal teaching
 - Practical work
 - Exam questions on the topic being covered

Student expectation:
For every 1 hr of lesson time, the pupils are expected to do the same amount of time in self-study – even if homework is NOT set



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Title: M
interpre

Spec Points:

8. be able to analyse and

Mass

(ii) Explain the bonding in a C

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.....
.....
.....

(iii) Suggest why the average
a C-C bond.

.....
.....
.....
.....



of a ^{12}C

mass of

the
ation.
ends



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Benefits of 100 minute lessons

- More time to get into depth and explore topics.
- More one to one challenging.
- More feedback given.
- More likely to retain the information.
- More time to challenge students understanding.
- Build better relationships.
- Delve deeper into the learning.



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Year 1

1. Atomic Structure
2. Bonding
3. Redox I
4. Inorganic & Group Chemistry
5. Calculations
6. Organics I
7. Modern Analytical techniques
8. Energetics I
9. Kinetics I
10. Equilibria I

Year 2

11. Equilibria II
12. Acid Base Equilibria
13. Energetics II
14. Redox II
15. Transition Metals
16. Kinetics II
17. Organic Chemistry II
18. Organic Chemistry III
19. Modern Analytical Techniques II



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Assessment

Exam only – 3 papers

- Paper 1 & 2 are worth 90 marks, 1 hour 45 minutes and worth 30% each of the final mark
- Paper 3 worth 120 marks, 2 hours 30 minutes and worth 40% of the final mark
- 20% of the total course involves level 2 (GCSE) or above mathematics

Practical skills assessment

- Teacher assessed
- Separate from A level qualification



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Extra Resources

- Main resource is the Edexcel textbook
- Access to course content via Teams
- Chemistry Drop-in once a week for extra support
- Exam packs available for each paper



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Enrichment

- Royal Society of Chemistry Schools Analysts Competition in Year 12 - overall winning team gets £50 voucher each plus £500 for the school.
- Royal Society of Chemistry Olympiad – a written test of chemical knowledge and understanding. Develops essential skills needed for university.



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- Chemistry is a facilitator A level Course...
- Known as the 'central science'...
- Soft skills in problem solving, numeracy, data analysis, communication, time management, resilience and team work to name a few...
- **Essential** requirement for some courses/training /apprenticeships:
 - Medicine
 - Pharmacy
 - Chemical engineering
 - Chemistry
 - Biochemistry
 - Dietetics & Nutrition
 - Veterinary science
 - Dentistry
- **Recommended** for others:
 - Engineering
 - Sports science
 - Physiotherapy
 - Nursing
 - Materials Science
 - Food Tech
 - Zoology
 - Psychology
 - Environmental science
 - Geography
 - Midwifery
 - Cosmetics & Beauty



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Subjects that work well with chemistry

- The *MOST* common ones are:
Biology, Physics, Maths, Economics, English,
Psychology
- We have also had students with the following:
Drama, History, Computer Science, Music
- Ultimately, chemistry goes with anything



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Career prospects???

▣ EVERYTHING!!!!



captured for me by chemistry and
crystals."

"Chemists
prefer to



it l
e."



fake

you ought not be for the
chemists alone."



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