

Welcome to the Southam College
Sixth Form



Welcome to A level Chemistry

Chemistry answers questions

How do batteries work?

When were electrons discovered?

How does the blood regulate its pH?

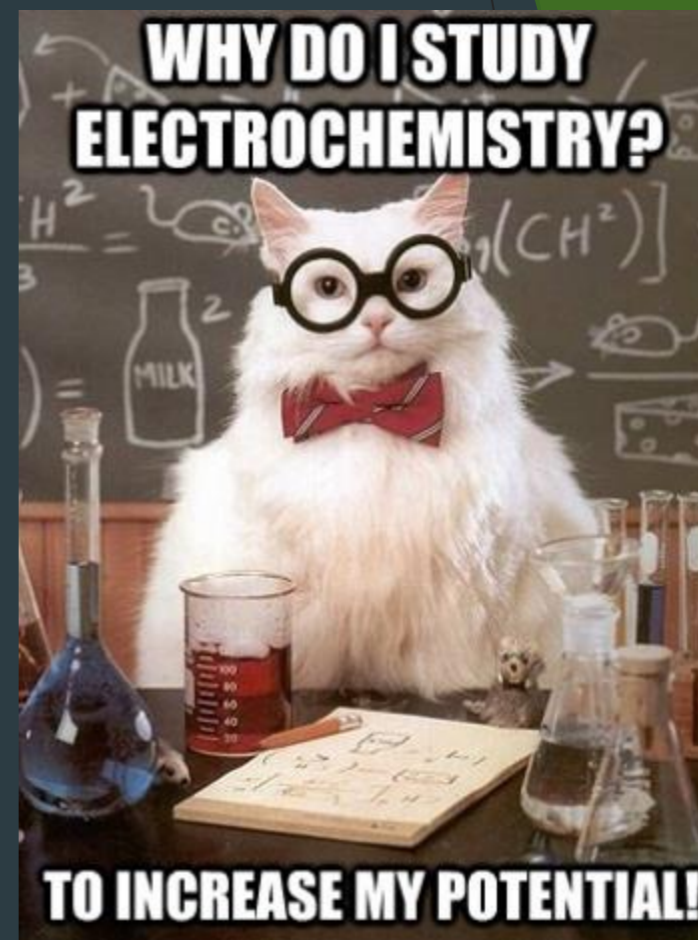
Why have some drugs been found to be harmful?

How are perfumes made?

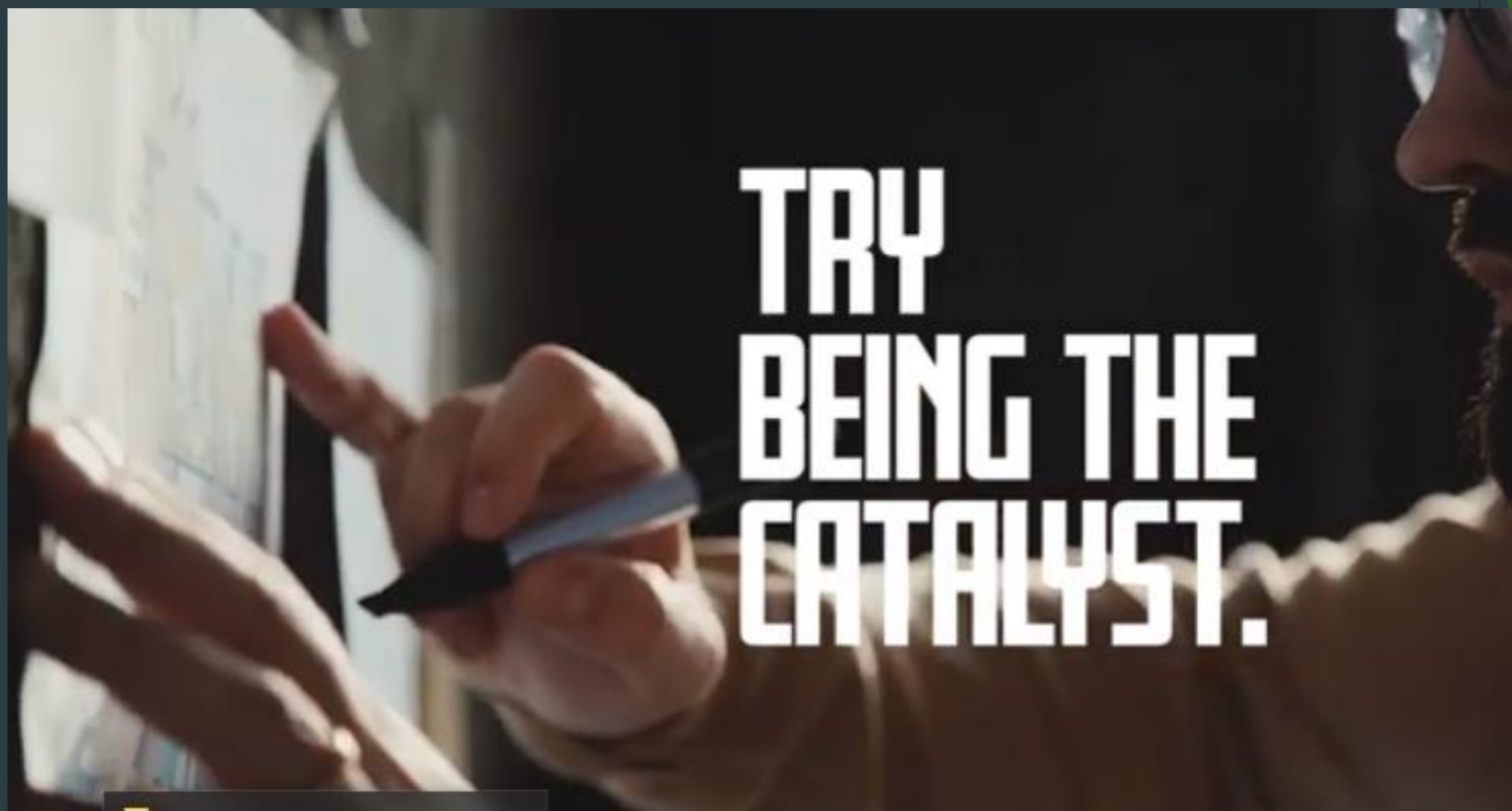
How do you make silver in a test tube?

Reasons to Study Chemistry

- ▶ Chemistry has lots of applications, so it gives you a great foundation
- ▶ It compliments the other Core Sciences along with Maths
- ▶ Chemistry can lead to a wide variety of careers
- ▶ You just love chemistry!



Chemistry opens doors



<https://edu.rsc.org/future-in-chemistry>

Possible Careers in Chemistry...

- ▶ Analytical Chemist
- ▶ Food Scientist
- ▶ Patent Attorney
- ▶ Bioanalytical Scientist
- ▶ Pharmaceuticals Scientist
- ▶ Atmospheric Chemist
- ▶ Nanotoxicologist
- ▶ Computational Toxicologist
- ▶ Development Chemist - Printing and Inks
- ▶ Research Assistant
- ▶ Flavour and Innovation Director
- ▶ Head of Chemistry, Teacher
- ▶ Sports Scientist
- ▶ Forensic Toxicologist
- ▶ Flavourist and Innovation Director
- ▶ Lab Technician
- ▶ Research Fellow
- ▶ Astrochemist
- ▶ Medicinal Chemist

Do I need Chemistry to...

- ▶ study Medicine?
- ▶ become a Forensic Scientist?
- ▶ become a Vet?
- ▶ become a Pharmacist?
- ▶ become a Dietician or Nutritionist?



YES!

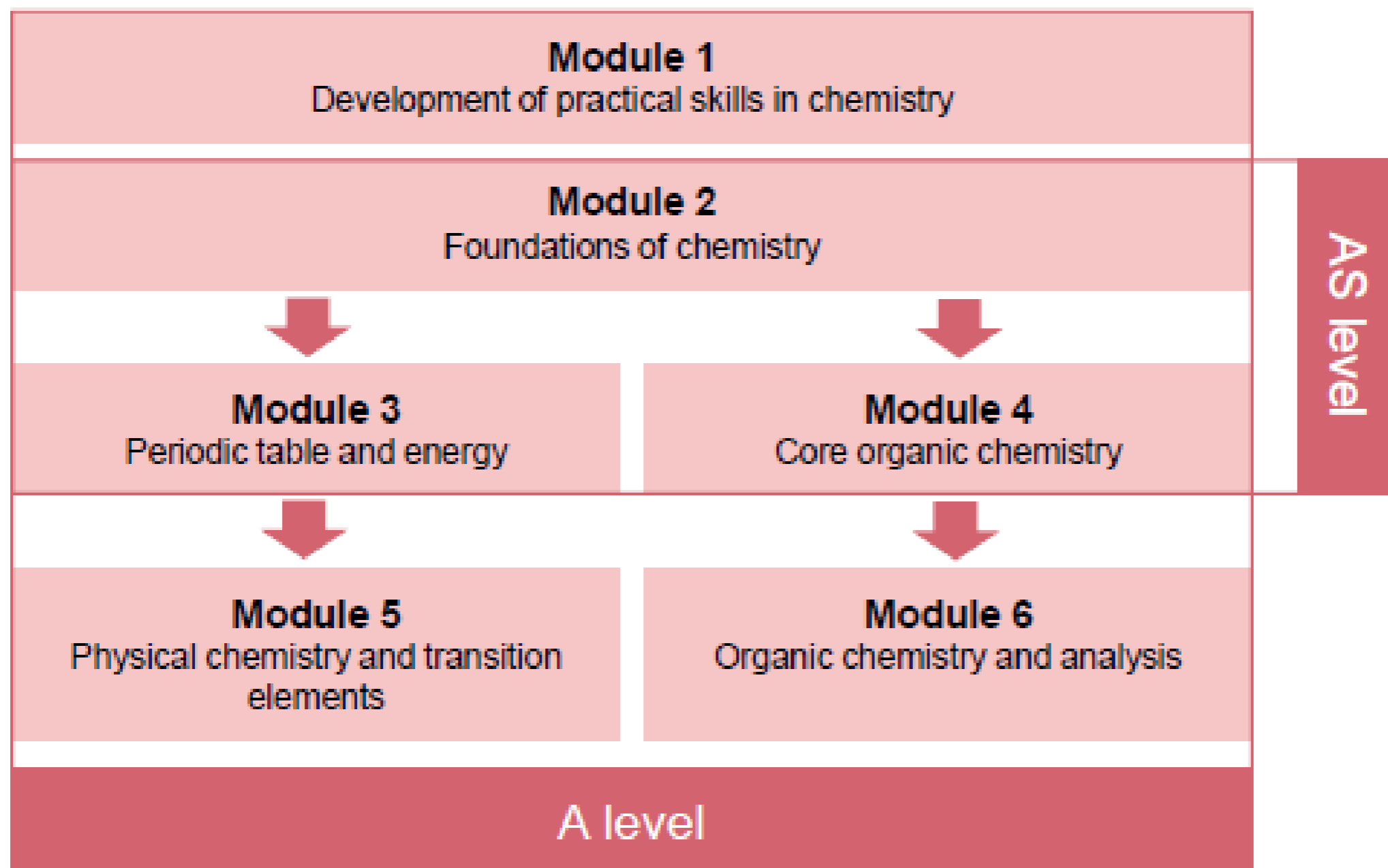
<https://edu.rsc.org/future-in-chemistry/career-options/do-i-need-chemistry-to->

Preferred A-level subjects for university courses

| | Course | Preferred A-levels | | |
|----------------------|--|--------------------|---------------------|-----------------|
| Chemical sciences | Analytical chemistry Applied chemistry Biochemistry Chemistry Forensic and environmental chemistry Green chemistry Materials chemistry Medicinal chemistry Nanotechnology / science Natural sciences Pharmaceutical chemistry Computational chemistry and modelling (MSc level) | Chemistry | Maths | Physics |
| Medicine | Dentistry Medicine Optometry Veterinary science | Chemistry | Biology | Maths |
| Earth science | Environmental / Earth science Geology Meteorology and climate science | Physics | Chemistry | Maths |
| Food science | Agricultural science Food and nutrition | Biology | Chemistry / Physics | Maths |
| Biological sciences | Biology Ecology Environmental science Evolution Forensic biology Genetics Molecular and cellular biology Plant science | Biology | Chemistry | Maths / Physics |
| Medical sciences | Biomedical / healthcare science Pharmacy Pharmacology | Chemistry | Biology | Physics / Maths |
| Health | Anatomical sciences Immunology and microbiology | Chemistry | Biology | Physics / Maths |
| Physics | Chemical physics | Physics | Chemistry | Maths |
| Chemical engineering | Chemical engineering | Maths | Physics | Chemistry |

<https://edu.rsc.org/download?ac=141830>

Chemistry A content



Assessment model –

AS level papers (A & B)

Paper 1 'Breadth'

1 h 30
70 marks

Section A (20 marks)

Multiple choice
questions

Section B (50 marks)

Short answer styles
(structured questions,
problem solving,
calculations, practical)

Paper 2 'Depth'

1 h 30
70 marks

Structured questions
covering theory and
practical skills

- 140 marks
- 3 hours total assessment time
- A specified minimum weighting for maths, at level 1 or level 2, of 20%
- Extended response in Paper 2 only
- Synoptic assessment in both papers
- Practical based questions included in both papers

Assessment model –

A level Chemistry A

- ❑ 270 marks
- ❑ 6 hours total assessment time
- ❑ Maximum of 50% AS content coverage
- ❑ Extended response in all papers
- ❑ Synoptic assessment across all papers
- ❑ Practical based questions included in all papers

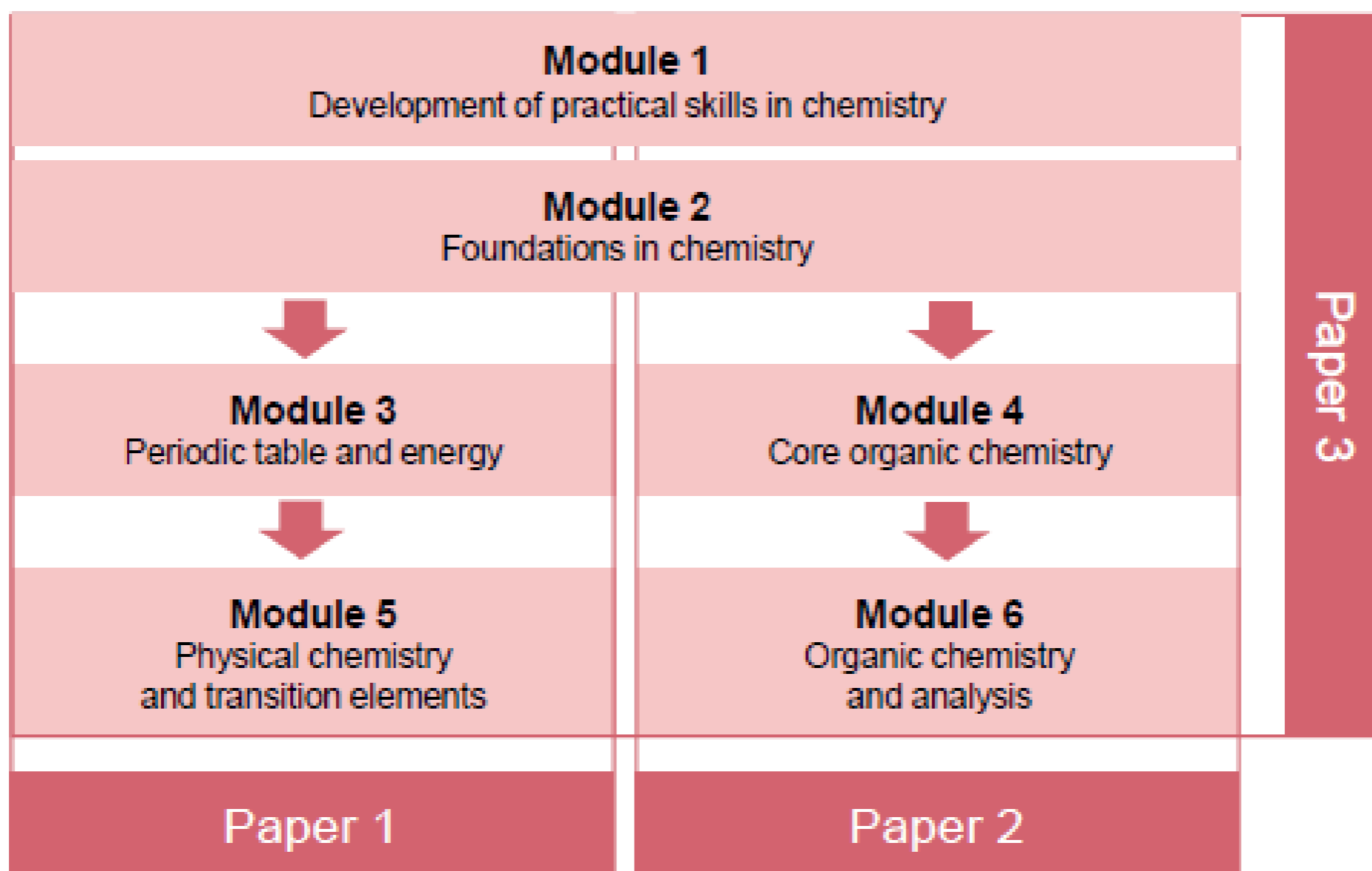
Paper 1
*Inorganic/
Physical*
2 h 15
100 marks
(15 MCQ)

Paper 2
*Organic/
Analytical*
2 h 15
100 marks
(15 MCQ)

Paper 3
*Unified
chemistry*

1 h 30
70 marks

How is the content split?



What to expect...

- ▶ High standard of teaching with an excellent track record of results
- ▶ Friendly, approachable teachers
- ▶ Lots of practical experiments
- ▶ Friendly like-minded students
- ▶ Fully equipped laboratories
- ▶ Varied approaches to learning



We look forward to teaching
you in September!

