

A-Level Chemistry

Mrs Craven



Chemistry answers questions

How do batteries work?

When were electrons discovered?

How does the blood regulate its pH?

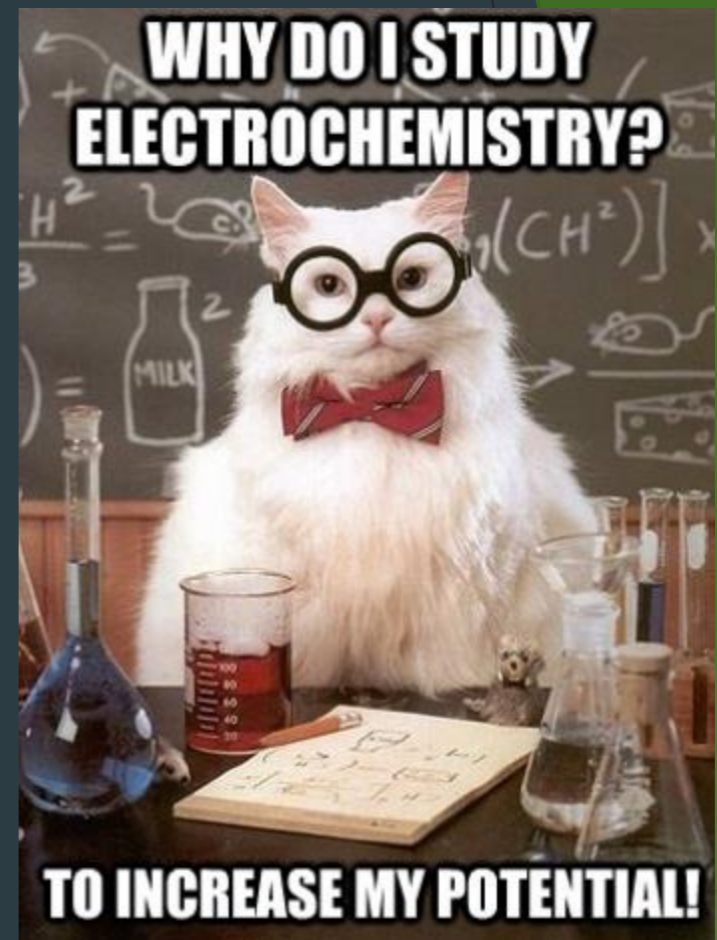
Why have some drugs been found to be harmful?

How are perfumes made?

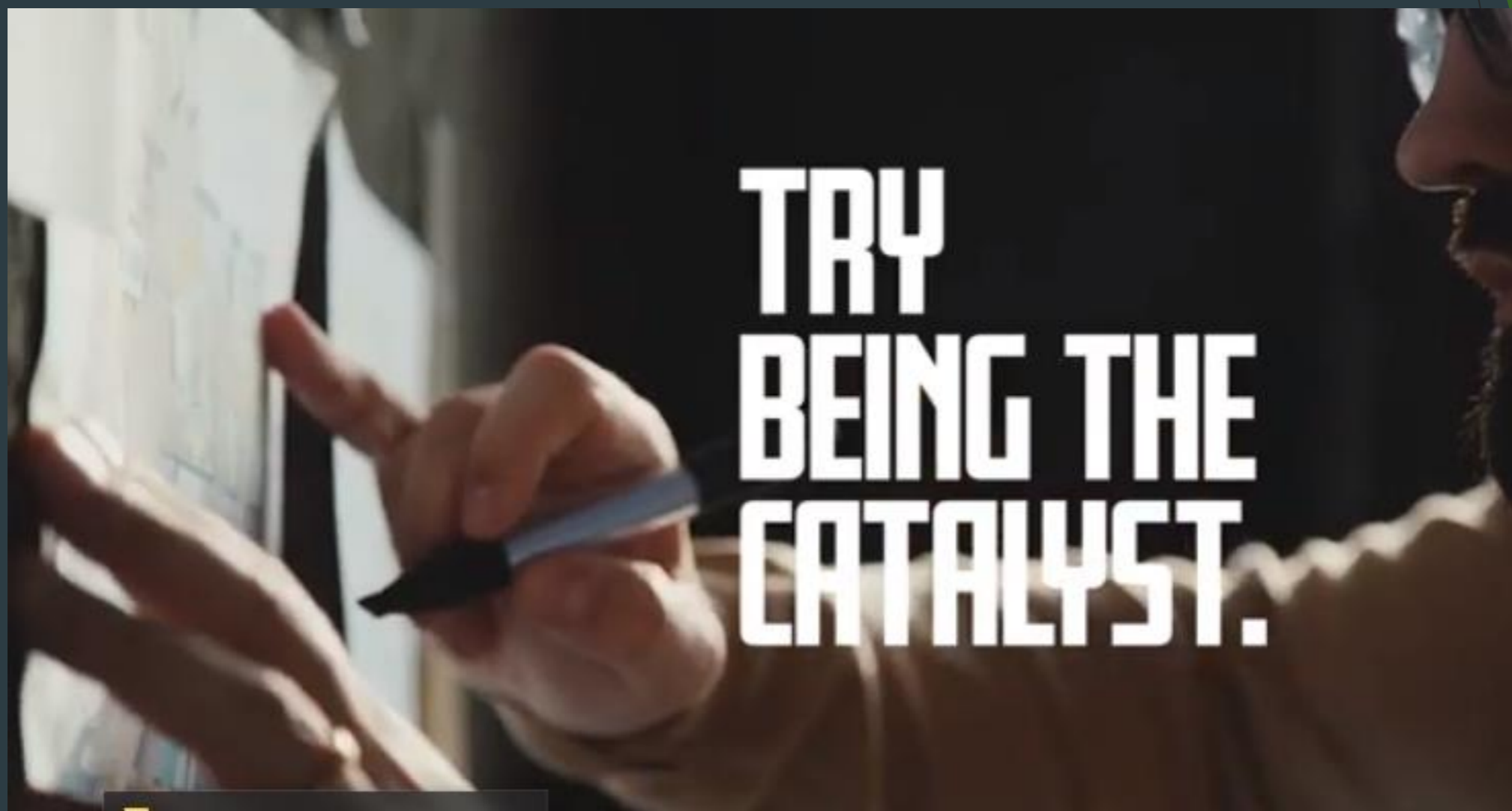
How do you make silver in a test tube?

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!

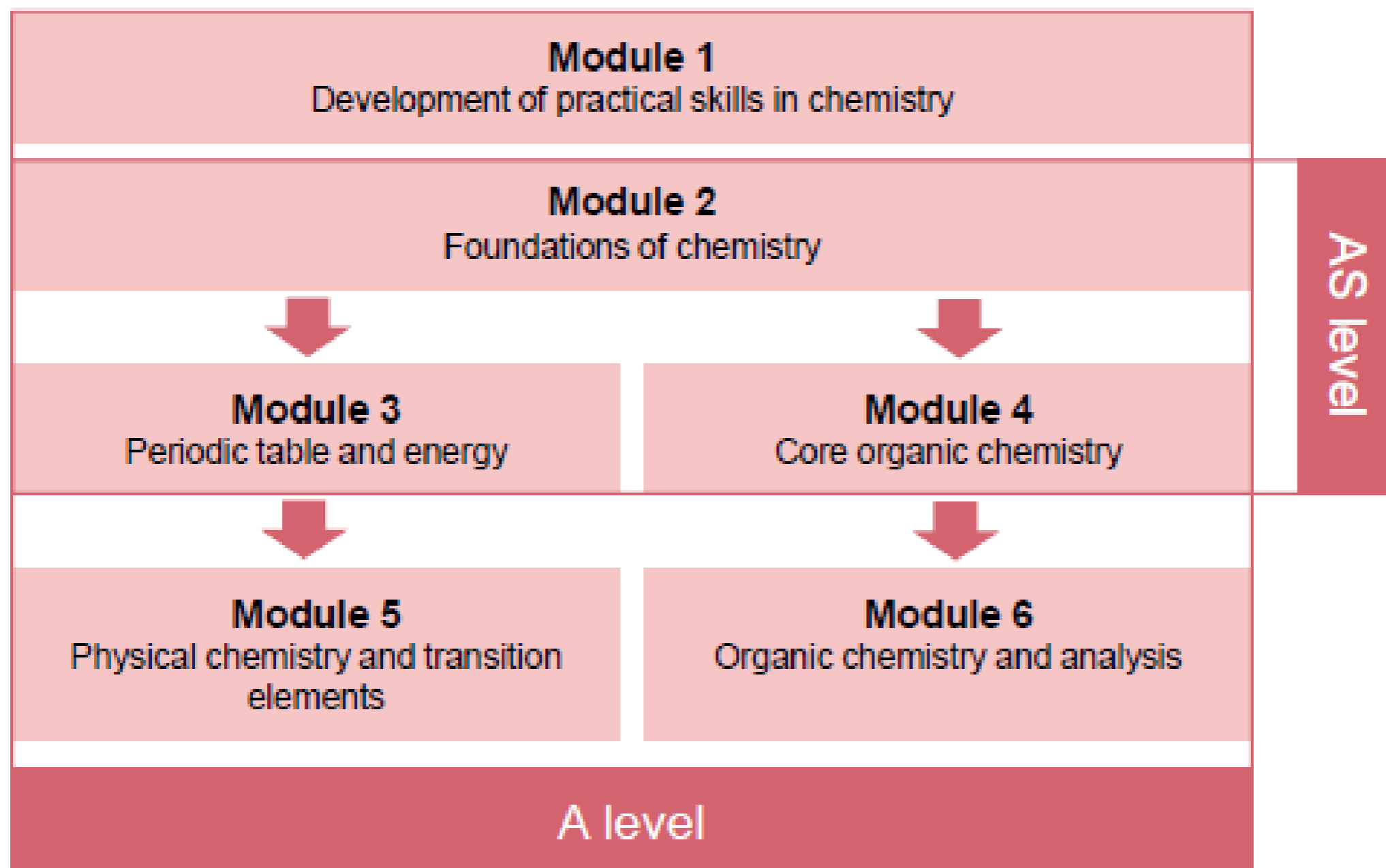
<https://edu.rsc.org/future-in-chemistry/career-options/do-i-need-chemistry-to->

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

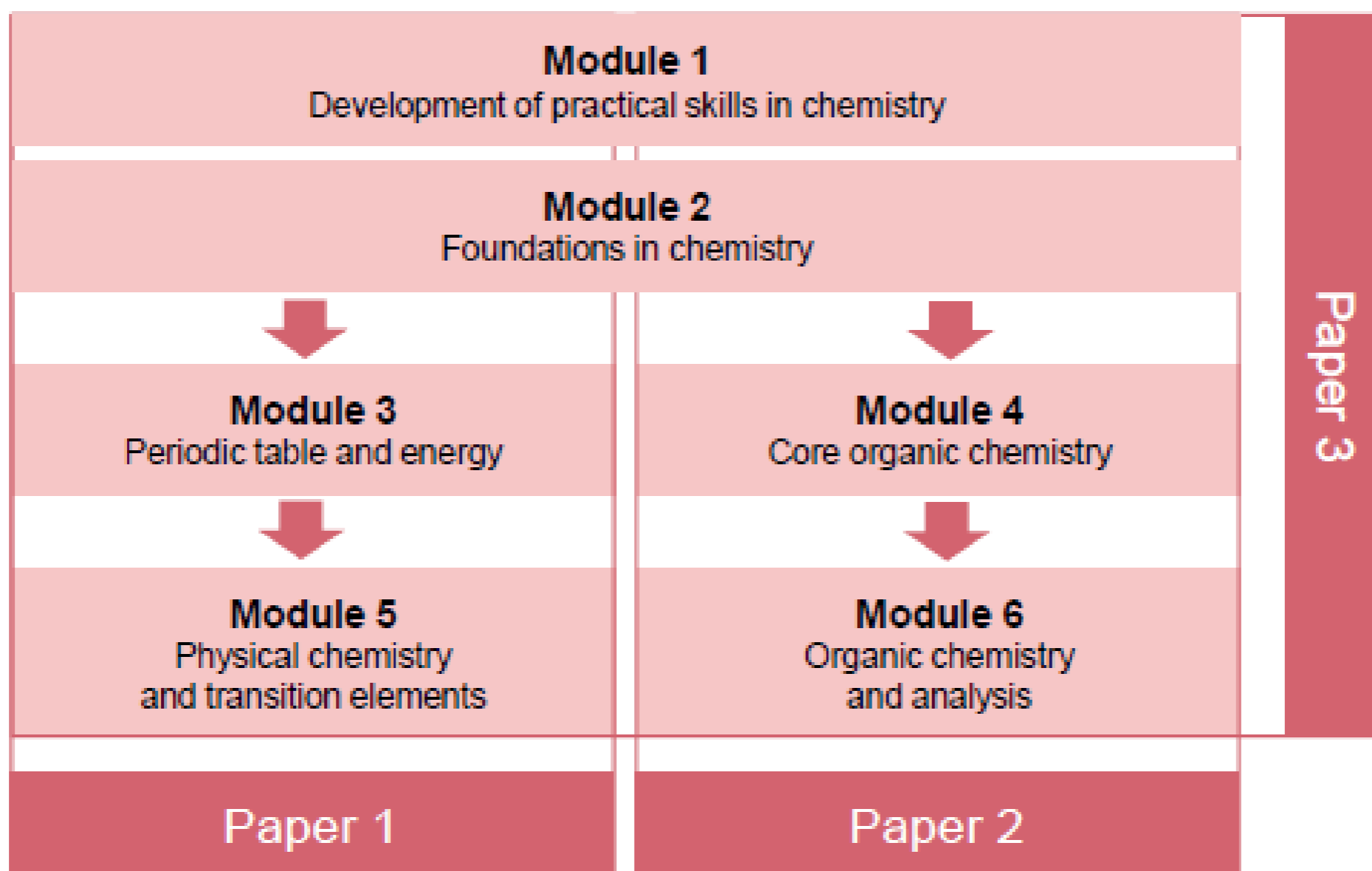
Paper 1
*Inorganic/
Physical*
2 h 15
100 marks
(15 MCQ)

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!

