

Our
Values



Pursuit
of Excellence



Value
our People



High Quality
Learning
Environment



Achievement
for all



Extending the
Boundaries
of Learning

CMAT | Cambridge Meridian
Academies Trust

Key Stage 5 Chemistry

Year 12



Curriculum aims

Our curriculum is built upon the AQA specification. This is designed to inspire students, nurture their passion for the subject and lay the foundations for further study and the workplace. We expand upon practical skills students already have and embed skills and knowledge that will be useful in the future.

Curriculum content

AQA A-Level Specification:

<https://www.aqa.org.uk/subjects/science/as-and-a-level/chemistry-7404-7405>

- Physical chemistry – atomic structure and bonding, kinetics, equilibria, amount of substance, energetics
- Organic chemistry – alkanes, alkenes, alcohols
- Inorganic chemistry – periodicity, Group 2 & Group 7

Curriculum Delivery

There will be nine taught hours per fortnight in the department. Lessons will be based on learning new content and being able to use this in new and challenging situations, including practical investigations. There will also be ample opportunity for exam practice.



In year 13, we build open the concepts from year 12 which will further develop critical thinking skills and problem solving abilities. The students will also be able to bring all aspects of the course together, including knowledge, maths skills and practical skills, to show just how much they have learnt.

- Physical chemistry – rate equations and equilibria, acids and bases, thermodynamics
- Organic chemistry – isomerism, polymers carboxylic acids, aromatic chemistry
- Inorganic chemistry – period 3, transition metals, organic analysis

There will be a mix of learning styles which will incorporate practical skills, analytical skills, worksheets, calculations and exam practice. This will be reinforced through lots of independent study outside of the lessons.