

Work in progress



Students studying this course say:

“Chemistry A Level is rewarding and challenging”

“ We like the mixture of practical work and theory lessons”

“ We enjoy the parts of the course where we have to use our sequencing skills”

“It’s an essential requirement for most medical courses”

“The course encourages hard work and resilience”



**St Thomas More**  
Catholic Academy  
FAITH | EXCELLENCE | RESPECT



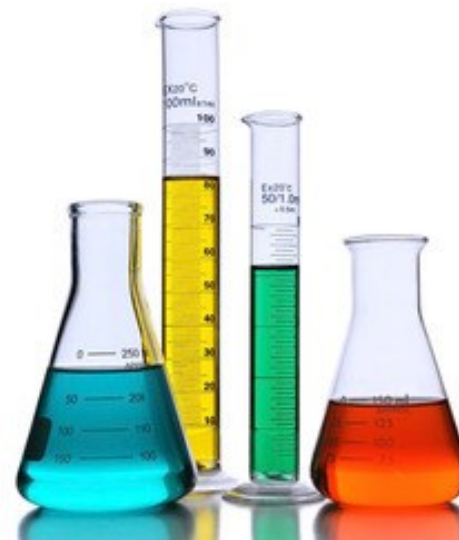
## Trinity Sixth Form



Succeeding Together

## Chemistry

AQA



### *What is the level of course I will take?*

AQA A-level Chemistry

### *How will I be assessed?*

**Paper 1 Assessment:** Written exam: 2 hours

- Inorganic chemistry, with relevant physical chemistry
- Relevant practical skills. 35% of A-level

**Paper 2 Assessment:** Written exam: 2 hours

- Organic chemistry, with relevant physical chemistry
- Relevant practical skills. 35% of A-level

**Paper 3 Assessment:** Written exam: 2 hours

- All practical skills
- All content
- 30% of A-level

### *How will the course help me after Sixth Form?*

According to bestcourse4me.com, the top five degree courses taken by students who have an A-level in Chemistry are:

- Chemistry
- Biology
- Pre-clinical medicine
- Mathematics
- Pharmacology.

Possible career options

Studying an A-level Chemistry related degree at university gives you all sorts of exciting career options, including:

- Analytical chemist, Chemical engineer, Clinical biochemist, Pharmacologist Doctor, Research scientist (physical sciences), Toxicologist, Chartered certified accountant, Environmental consultant, Higher education lecturer, Patent attorney, Science writer, Secondary school teacher.

### *What will I learn?*

Year 12 Physical chemistry

Including atomic structure, amount of substance, bonding, energetics, kinetics, chemical equilibria and Le Chatelier's principle

Year 12 Inorganic chemistry

Including periodicity, Group 2 the alkaline earth metals, Group 7 the halogens

Year 12 Organic chemistry

Including introduction to organic chemistry, alkanes, halogenoalkanes, alkenes, alcohols, organic analysis

Y13 Physical chemistry

Including thermodynamics, rate equations, the equilibrium constant  $K_p$ , electrode potentials and electrochemical cells

Year 13 Inorganic chemistry

Including properties of Period 3 elements and their oxides, transition metals, reactions of ions in aqueous solution

Year 13 Organic chemistry

Including optical isomerism, aldehydes and ketones, carboxylic acids and derivatives, aromatic chemistry, amines, polymers, amino acids, proteins and DNA, organic synthesis, NMR spectroscopy, chromatography

### *How will I learn?*

Chemistry is fundamentally an experimental subject. The AQA specification provides numerous opportunities to use practical experiences to link theory to reality, and to equip students with essential practical skills. Learning includes presentations to the class, discussions, and independent research.