

CHEMISTRY

GCSE

For more information, please consult: smithrj@poolegrammar.com

Examination Board: AQA

Introduction: Chemistry is the study of matter, its properties, how and why substances combine or separate to form other substances, and how substances interact with energy. Students will examine how the properties of the elements are related to their electronic structure and how this determines their position in the Periodic table. They will apply this knowledge to physical, inorganic and organic chemistry. Throughout the course they will complete a range of practical activities.

What will I study?

- Unit One – Atomic structure and the periodic table
- Unit Two – Bonding, structure and the properties of matter
- Unit Three – Quantitative chemistry
- Unit Four – Chemical changes
- Unit Five – Energy changes
- Unit Six – The rate and extent of chemical change
- Unit Seven – Organic chemistry
- Unit Eight – Chemical analysis
- Unit Nine – Chemistry of the atmosphere
- Unit Ten – Using resources

How will my work be assessed?

- Controlled Assessment - None
- Written Examination

Paper 1: Topics 1-5 Atomic structure and the periodic table; Bonding, structure and the properties of matter; Quantitative chemistry, Chemical changes and Energy changes.

How it's assessed

- Written exam: 1 hour and 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50% of GCSE
- Multiple choice, structured, closed short answer and open response

Paper 2: Topics 6-10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere and using resources.

How it's assessed

- Written exam: 1 hour 45 minutes
- Foundation and Higher tier
- 100 marks
- 50% of GCSE
- Multiple choice, structured, closed short answer and open response.

What would this subject enable me to do when I leave school? Many Chemists go on to work in professional careers such as professional chemists in the chemical and pharmaceutical industries, accountants, investment bankers, teachers, forensic scientist, patent lawyers, journalism and the media, marketing and advertising and various careers in the food industry (including brewing)