

HOLLAND PARK SCHOOL SIXTH FORM | CHEMISTRY

Examination Board
AQA
Topics/ Texts Studied
The course is divided into three main sections. <u>Physical, Inorganic & Organic chemistry.</u> Topics included: Atomic structure, bonding and structure, redox I and II, thermodynamics, electrochemistry, inorganic and periodic table trends, quantitative chemistry, organic I, II and III, analytical techniques I and II, energetics I and II, kinetics I and II, equilibrium I and II.
Coursework and Practical Elements
The assessment of practical skills is a compulsory requirement of the course of study for A level qualifications in biology, chemistry and physics. It will appear on all students' certificates as a separately reported result, alongside the overall grade for the qualification. Students will participate in approximately 12 required practical activities over the course of study. Each practical will test core competencies and will contribute to passing the practical component of the qualification. The required practicals will also be examined in all three papers, with at least 15% of the the total marks being awarded.
Recommended Pre-reading
The Chemistry of Life (Steven Rose) Chemistry (Brock) Principles of Biochemistry (White, Handler and Smith) Chemistry for Changing Times (Hill, McCreary and Kolb) Materials Science (Ramsden) The Periodic Kingdom (Atkins) Mendeleev's Dream – the search for the elements (Strathern) Periodic Tables – The Curious Life of the Elements (Aldersty and Williams) The Disappearing Spoon (Kean) 50 Ideas you really need to know about Chemistry (Birch) The Periodic Table – a field guide to the elements (Parsons and Dixon)
Where will this course take me?

Chemistry is a must have for anyone looking to study medicine, dentistry or veterinary medicine at university, as well as leading to further study in chemistry, biochemistry or chemical engineering. The skills and knowledge you develop in chemistry will lead you to be successful in careers in scientific research, technology, pharmaceuticals, engineering, education, finance, law, consulting or the environment.

Why should you study this course?

Chemistry is all around us from cooking to chemicals changing the colour of leaves. It is often a deeply theoretical and complex subject but it seeks to answer questions and explain our observations of the world on an atomic level. The subject will challenge the ideas you hold and help you build links between all of the sciences.

What are the entry requirements?

In addition to the general entry requirements, you will need a grade 7 or above in GCSE Combined Science or a grade 7 in GCSE Chemistry to study this course.