A LEVEL CHEMISTRY
(OCR Salters Board specification B)

Bay House Sixth Form

The OCR Salters Chemistry Course is made up of ten modules:

Year one:
1. **Elements of life** – atomic structure, equations, periodicity, bonding and molecular shapes.
2. **Developing fuels** – thermochemistry, catalysis, alkanes, alkenes, polymers and isomers.
3. **Elements from the sea** – halogen chemistry, redox chemistry and equilibria.
4. **The ozone story** – rates of reaction, radicals, intermolecular bonding and haloalkanes.
5. **What's in a medicine** – alcohols, carboxylic acids, esters and analytical techniques.

Year two:
6. **The chemical industry** – equilibria, kinetics, nitrogen chemistry and chemical processes.
7. **Polymers and life** – enzyme catalysis, amino acids, proteins, DNA, RNA and NMR.
8. **Oceans** – enthalpy, entropy, acid-base equilibria, pH and the greenhouse effect.
9. **Developing metals** – redox titrations, electrode potentials, rusting, and d-block chemistry.
10. **Colour by design** – dyes, aromatics, carbonyl compounds and organic synthesis.

Practical endorsement – A series of practical activities. Findings are reported and checked by examiners. This is designed to check competencies in basic chemical procedures.

This course is an excellent preparation for further study of the subject at university. It is essential for those wishing to prepare for careers in medicine, dentistry and veterinary science, and a very useful subject for those wishing to study other sciences or engineering.

Examination structure:

Module	**Exam**	
	Length	**%**
Fundamentals of Chemistry – assesses modules 1-10	135min	41%
Scientific literacy in Chemistry – assesses modules 1-10	135min	37%
Practical skills in Chemistry – assesses modules 1-10	90min	22%
Practical endorsement for Chemistry	N/A	Reported separately

GCSE requirements:

*Science – grade 6:6 in GCSE Combined Science, **or** a grade 6 in GCSE Chemistry*
English Language – grade 4
Maths – grade 6

Students who wish to take two or more from Biology, Chemistry, Physics, Maths and Further Maths will need at least one grade 7 in a relevant science or Maths