

CHEMISTRY



Topics we study

Unit 1

- AOS 1: explaining structures, properties, and reactions
 - Elements & the periodic table, Covalent compounds, Reactions of metals and salts
 - Separation techniques
- AOS 2: quantities and classifications
 - Quantifying atoms and compounds
 - Organic compounds & polymers
- AOS 3: research investigation: creating a more sustainable future

Unit 2

- AOS 1: Water and how things interact with it.
 - Water
 - Acid-base reactions
 - Redox reactions
- AOS 2: Analysis and quantifying
 - Measuring solubility, concentration, gases
 - Analysing acids, bases, & salts
- AOS 3: Scientific investigation

Unit 3&4

Unit 3: Optimising chemical process

- AOS 1: supplying energy
 - Fuels
 - Batteries
- AOS 2: rates of reactions and yields
 - Equilibrium
 - Electrolysis
- AOS 3: Scientific investigation

Unit 4: Carbon-based compounds

- AOS 1: organic compounds
 - Structures
 - Reactions
- AOS 2: analysis
 - Laboratory instruments and analysis
 - Medicinal chemistry



Industries that use Chemistry?

Medicine	Nursing	Dietitian	Forensics
Engineer	Biologist	Geologist	Pathologist
Radiologist	Geneticist	Ecologist	Sport
Science	Aquaculture	Anaesthetist	
Botanist	Psychologist	Textile-technician	
	Petroleum-plant-operator	Shotfirer	
Agriculture	Plastics-processor	Quality	
control			



For more information, contact Amy Partridge
amy.partridge@baysidecc.vic.edu.au
 03 5971 6715



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