




VCE Chemistry Unit 1 & 2 Essential Topics

Teacher perspectives of essential topics in Unit 1&2 Chemistry
STAV VCE Chemistry Conference 2022

-  Foundational concepts
 -  Essential for Unit 3&4
 -  Weighting of 0
- Higher importance = longer line

[Click here](#) to vote for the essential Unit 3&4 topics

Unit 1 AOS1

Atomic Structure

Bohr & Schrodinger Model

Foundational concepts

Essential for Unit 3&4

Periodic table trends

- reactivity
- electronegativity

Properties

- metals, ionic compounds

Quantifying atoms & compounds

- moles, molar mass

Unit 1 AOS2

Represent models

- electron dot, valence etc.

Shapes of molecules

- polar, non-polar
- refer to electronegativity

Intermolecular forces

- properties of molecules

Comparison of bonding strength

Carbon lattices

Organic compounds

- families, properties
- naming
- drawing structures

Empirical, molecular formula

- % composition

Polymers

U1 AOS3 Research Project

Unit 2 AOS1

Properties of water

- b.p, m.p, specific heat capacity: explained by intermolecular forces

Water as solvent

- solubility
- precipitation reactions

Acid Base reactions

- proton transfer
- pH, ionic product
- full & ionic equations

Redox reactions

- terminology
- full & half-equations
- reactivity series

Unit 2 AOS2

Water analysis

Solubility

- tables, effect of temp

Concentration

- molar
- g/L, %w/w, ppm etc
- unit conversion

Stoichiometry

- mole ratios
- mass-mass
- volumetric

Gravimetric Analysis

Calibration curves

- UV-vis, AAS, HPLC

Unit 1 AOS3

Practical investigation

- key science skills