VCE Units 1-4

Learning Area	Unit	Area of Study	Topic	Key Knowledge
Chemistry	2	1	Acid-base (proton-transfer) reactions	CHEM.U2 AOS1.2.1 · The Brønsted-Lowry theory of acids and bases, including polyprotic acids and amphiprotic species, and the writing of balanced ionic and full equations, with states, for their reactions in water
Chemistry	2	2	Measuring solubility and concentration	CHEM.U2 AOS2.1.1 Solution concentration as a measure of the quantity of solute dissolved in a given mass or volume of solution (mol L-1, g L-1, %(m/v), %(v/v), ppm), including unit conversions
Chemistry	2	2	Analysis for acids and bases	CHEM.U2 AOS2.2.1 Volume-volume stoichiometry (solutions only) and application of volumetric analysis, including the use of indicators, calculations related to the preparation of standard solutions, dilution of solutions, and use of acid-base titrations (excluding back titrations) to determine the concentration of an acid or a base in a water sample
Chemistry	2	2	Analysis for salts	CHEM.U2 AOS2.4.2 Quantitative analysis of salts: - molar ratio of water of hydration for an ionic compound - the application of mass-mass stoichiometry to determine the mass present of an ionic compound - the application of colorimetry and/or UV-visible spectroscopy, including the use of a calibration curve to determine the concentration of ions or complexes in a water or soil sample