Term	Week	YEAR 12 HSC CHEMISTRY – 2025 SCOPE & SEQUENCE
4	1	**Module 5: Equilibrium and acid reactions** (30 hours) Outcomes CH11/12-4, CH11/12-5, CH11/12-6, CH11 /12-7, CH12-12 Static and Dynamic equilibrium Non-equilibrium systems, enthalpy and entropy Factors that affect equilibrium including activation energy and heat of reaction Equilibria constants Solution equilibria Major Assessment: Practical Investigation Equilibrium
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1	1	**Module 6: Acid – Base reactions** (30 hours) Outcomes CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-5, CH12-13 Properties of acids and bases Contemporary acid theory pH, pOH, hydrogen ion concentration ([H^+] Analyse the concentration of an unknown acid or base by titration Buffers in natural systems Major Assessment: Titration Practical Acid/Base reactions **Module 7: Organic Chemistry** (30 hours) Outcomes CH11/12-5, CH11/12-6, CH11/12-7, CH12-14
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2	1	Hydrocarbons Functional group compounds Hydrocarbon reactions Alcohols Reaction of organic acids and bases Polymers Major Assessment: Hydrocarbon Research Depth study (15 hours)
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3	1	**Module 8: Applying Chemical Ideas** (30 hours) Outcomes CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-7, CH12-15 Analysis of inorganic substances Analysis of organic substances Chemical synthesis and design Major Assessment: Trial HSC Examination
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