Hills Grammar

SCOPE AND SEQUENCE STATEMENT: YEAR 12 CHEMISTRY 2025

TERM 4 - 2024	1	2	3	4	5	6	7	8
OVERALL TOPIC	YR 11 COURSE		**Module 5: Equilibrium and Acid Reactions**					
OVERVIEW			Students investigate equilibrium systems and the factors affecting them. They analyse the quantitative relationship between products and reactants in equilibrium reactions to determine the equilibrium constant and learn to predict the equilibrium position of a chemical reaction. Depth study – 7 hours					
OUTCOMES			CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7, CH12-12					
ASSESSMENT			AT1 Data Analysis and calculations – 25% **(week 9**)					
	6 WEEKS 24 HOURS							

TERM 1 - 2025	1	2	3	4	5	6	7	8	9	10	11
OVERALL TOPIC	**Module 6: Acid/Base Reaction**									**Module 7: Organic Chemistry**	
OVERVIEW	Students investigate acids and bases, their reactions, and their extensive use of them in everyday life and the human body. They also explore the contributions of acids and bases to industrial contexts and the environment and the need for continual monitoring of the levels of these chemicals. Depth study – 8 hours.										
OUTCOMES	CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7, CH12-13										
ASSESSMENT	AT2 Depth Study – 25% **(week 9)**										
	11 WEEKS 44 HOURS										

TERM 2 - 2025	1	2	3	4	5	6	7	8	9
OVERALL TOPIC	**Module 7: Organic Chemistry**							**Module 8: Applying Chemistry**	
OVERVIEW	Students focus on the principles and applications of chemical synthesis in organic chemistry. They also investigate current and future applications of organic chemistry in meeting the needs of society								
OUTCOMES	CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7, CH12-12, CH12-14								
ASSESSMENT	AT3 Information Processing – 20% **(week 7)**								
	9 WEEKS 36 HOURS								

TERM 3 - 2025	1	2	3	4	5	6	7	8	9	10
OVERALL TOPIC	**Module 8: Applying Chemistry continued**				**Module 8: Applying Chemistry continued**					
OVERVIEW			TRIAL HSC EXAMS AT4 – 30%		Students investigate a range of methods used to identify and measure quantities of chemicals. This identification and analysis of chemicals is of immense importance in scientific research, medicine.					
OUTCOMES					CH11/12-1, CH11/12-2, CH11/12-3, CH11/12-4, CH11/12-5, CH11/12-6, CH11/12-7, CH12-15					
ASSESSMENT										
	10 WEEKS 40 HOURS									

TOTAL COURSE HOURS: 144 hours