

SCOPE AND SEQUENCE STATEMENT: YEAR 10 SCIENCE PLATO 2025 (Topic allocation will vary depending on Rotation of classes)

<u>TERM 1</u>	1	2	3	4	5	6	7	8	9	10	11		
OVERALL TOPIC	Student Research Project		Rotation 1: On the Move						Rotation 2: Chemical Reactions				
OVERVIEW	Students plan, design, and conduct a first-hand investigation to test whether ideas are reliable and valid.		Understanding motion is key to understanding the world around us. We can describe this motion, measure it, and predict it. <i>(Describe the relationships between displacement, time, velocity, and acceleration using the equations of motion)</i>						Students explore the fact that chemistry is happening all around us and we need to understand that chemical reactions can be altered as well as have an impact on industry, the environment and the living world.				
OUTCOMES	SC5-1VA, SC5-4WS, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-9WS		SC5-1VA, SC5-2VA, SC5-3VA, SC5-4WS, SC5-5WS, SC5-6WS, SC5-7WS, SC5-8WS, SC5-9WS, SC5-10PW, SC5-11PW						SC5-1VA, SC5-2VA, SC5-3VA, SC5-6WS, SC5-7WS, SC5-16CW, SC5-17CW				
ASSESSMENT	See assessment grid												
11 WEEKS 38.5 HOURS													
<u>TERM 2</u>	1	2	3	4	5	6	7	8	9	See assessment grid			
OVERALL TOPIC	Chemical Reactions (Continued)			Rotation 3: Genetics									
OVERVIEW	<i>(Writing chemical formula using polyatomic ions)</i>			Students explore the molecule of life and understand how the coded information passes from generation to generation. <i>(Develop an understanding of the process of Polypeptide Synthesis and Sex Linkage as a deviation of Mendel's ratios)</i>									
OUTCOMES				SC5-1VA, SC5-2VA, SC5-3VA, SC5-14LW, SC5-15LW									
ASSESSMENT	See assessment grid												
9 WEEKS 31.5 HOURS													
<u>TERM 3</u>	1	2	3	4	5	6	7	8	9	10			
OVERALL TOPIC	Rotation 4: Origin of the Universe and Life Goes on					Rotation 5: Waves and Technology							
OVERVIEW	Students explore the theories of the universe and the evolution of species. <i>(Use DNA sequencing as evidence to support the Theory of Evolution and describe examples of advances in technologies to enhance the view of the universe)</i>					Students explore the nature of light, its applications, and how different technologies have revolutionised digital communications and medicine. <i>(Develop an understanding of the importance of electromagnetic radiation in the development of technologies in communication such as mobile phones and X-rays and Gamma rays in the diagnosis and treatment of diseases)</i>							
OUTCOMES	SC5-1VA, SC5-2VA, SC5-3VA, SC5-14LW, SC5-15LW					SC5-1VA, SC5-2VA, SC5-3VA, SC5-14LW, SC5-15LW							
ASSESSMENT	See assessment grid												
10 WEEKS 35 HOURS													
<u>TERM 4</u>	1	2	3	4	5	6	7	8					
OVERALL TOPIC	Revision	EXAM WEEK	Enrichment										
OVERVIEW													
OUTCOMES													
ASSESSMENT			AT4 Yearly Examination-30% (Week 2)										
8 WEEKS 28 HOURS													

TOTAL COURSE HOURS: 133 hours