

SCOPE AND SEQUENCE STATEMENT: YEAR 12 PHYSICS 2025

<u>Term 4 - 2024</u>	1	2	3	4	5	6	7	8	1			
OVERALL TOPIC			Module 5: Advanced Mechanics									
OVERVIEW	YR 11 COURSE		Students investigate complex kinematic situations involving multiple dimensions and varying force components. Students study projectile motion and circular motion, among others. Depth study – 6 hours									
OUTCOMES			PH11/12.1, PH11/12.3, PH11/12-4, PH11/12-5, PH11/12-6, PH11/12-7, PH12-12									
ASSESSMENT												
	6 WEEKS 24 HOURS											
<u>Term 1 - 2025</u>	1	2	3	4	5	6	7	8	9	10	11	
OVERALL TOPIC	Module 5: A Mechanics (Module 6: Electromagnetism						·	Module 7: The Nature of Light		
OVERVIEW	Students investigate the interactions that take place between charged particles and electric/magnet including their application in electricity production and their uses in motors. Depth study – 4 hours											
OUTCOMES	PH11/12-1, PH11/12-2, PH11/12-3, PH11/12-4, PH11/12.5, PH11/12-6, PH11/12-7, PH12-13											
ASSESSMENT	AT1: Practical/Depth Study – 25% (Week 3) AT2: In Class Theory								Theory Data An	alysis- 25% (We	ek 9)	
	11 WEEKS 44 HOURS											
<u>Term 2 - 2025</u>	1	2	3	4	5	6	7	8	9			
OVERALL TOPIC	Module 7: The Nature of Light (continued) Module 8: From the Universe to the Atom											
Overview	Students investigate theories of light and the significant and profound modifications as a result of the quantum theory. The properties of light and their consequences are explored in relativity and applications of the quantum theory. Depth study – 5 hours											
OUTCOMES	PH11/12-1, PH11/12-2, PH11/12-3, PH11/12-4, PH11/1				PH12-14 PH11/12-5, PH11/12-6, PH11/12-7, PH12-15							
ASSESSMENT	AT3: Research and Information Processing - 2								20% (Week 9)			
	9 WEEKS 36 HOURS											
TERM 3 - 2025	1	2	3	4	5	6	7	8	9	10]	
OVERALL TOPIC	Module 8: From the Universe to the Atom				Module 8: From the Revision Universe to the Atom		·	·		1		
OVERVIEW	(cont.)		TRIAL HSC EXAMS		(cont.)							
OUTCOMES											1	
ASSESSMENT			AT4: Trial Examination 30%								1	
	10 WEEKS 40 HOURS										1	