

Varsity College Year 12 PHYSICS 2024

Term 1

Week	Date	Topics	Assessment	
1	22-26 January O-Week Australia Day PH Fri	Orientation Week		
2	29 Jan-2 Feb	 Electrostatics, Coulomb's law and Electric Fields 		
3	5-9 February Swimming Carnival - Thurs	Electric Potential and Magnetic fields		
4	12-16 February	 Magnetic fields and Solenoids 		
5	19-23 February	 The motor effect, Electromagnetic induction, Faraday's law and Lenz's Law 		
6	26 Feb-1 Mar GC24 - Wednesday	Transformers and EMR		
7	4-8 March	 Student Experiment – Plan and Conduct (IA2 1-2) 	IA2 Handed Out L1	
8	11-15 March	Student Experiment – Analyse and Evaluate (IA2 3-4)		
9	18-22 March GC24 - Thursday	Student Experiment – Analyse and Evaluate (IA2 5-6)		
10	25-29 March Good Friday PH	EXAM BLOCK		
School holidays: Friday March 29 - Sunday April 14				

Term 2

Neek	Date	Topics	Assessment
1	15-19 April Cross Country - Wed	 Frames of Reference, Relative motion and Postulates of Special Relativity Student Experiment – Analyse and Evaluate (IA2 7) 	
2	22-26 April GC24 - Tuesday Anzac Day PH - Thurs	SimultaneityTime dilation and relativity of time	IA2 Draft Due L1
3	29 Apr-3 May	Length contractionRest mass and relativistic momentum	
4	6-10 May Labour Day PH - Mon	ParadoxesStudent Experiment – Drafting Conferencing (IA2 8&9)	IA2 Draft Returned L2
5	13-17 May	Young's double slit experimentBlackbody radiationPhotons	IA2 Final Due L1
6	20-24 May	 The photoelectric effect (2) Research Investigation – Plan and Conduct (IA3 1) 	IA3 Handed Out L1
7	27-31 May	Research Investigation – Plan and Conduct (IA3 2&4)	
8	3-7 June	 Research Investigation – Analyse and Interpret (IA3 5-6) 	
9	10-14 June GC24 - Wednesday	 Research Investigation – Evaluate and Conclude (IA3 7) The Compton effect 	IA3 Draft Due L1
10	17-21 June Exam: Mon am + Wed pm Athletics Carnival - Thurs	Rutherford's model of the atom	



Term 3

Week	Date	Topics	Assessment	
1	8-12 July	Bohr's model of the atom	IA3 Draft Returned L1	
		Atomic spectra		
		 Research Investigation – Drafting Conferencing (IA2 8&9) 		
2	15-19 July	Quantum theory consolidation	IA3 Final Due L1	
3	22-26 July GC24 - Thursday	 Quarks, Hadrons and Leptons 		
		Bosons and forces		
		Particle interactions		
	29 Jul- 2 Aug Exam: Wed + Fri pm	Feynman diagrams		
4		Symmetry in particle interactions		
		Standard model consolidation		
5	5-9 August	Revision – Gravity and Motion		
6	12-16 August GC24 Finals – Wed.	Revision – Electromagnetism		
7	19-23 August	 Revision – Special Relativity 		
8	26-30 August	Revision – Quantum theory		
9	2-6 September	MOCK EXAMS	2 x 90min Exams	
10	9-13 September	MOCK EXAMS		
School holidays: Saturday September 14 – Sunday September 29				

Term 4

Week	Date	Topics	Assessment
1	30 Sept – 4 Oct	Mock exam analysis	
2	7-11 October King's B'day PH - Monday	Revision of Unit 3 and 4	
3	14-18 October	Revision of Unit 3 and 4	
4	21 Oct-15 Nov.		External
5	28 Oct – 1 Nov	EXTERNAL EXAMS	Assessment: Unit 3
6	4-8 November		and 4
7	11-15 November	Final Week Events	