

# Varsity College Year 12 Physics 2023

## Term 1, 2023

Week	Date	Topics	Assessment	
1	23-27 January Australia Day PH - Thurs	Electrostatics and Coulomb's Law		
2	30 Jan – 3 Feb Swimming Carnival - Mon	Electric Fields and Electric Potential		
3	6-10 February	Magnetic fields		
4	13-17 February	Magnetic fields & Introduction to Electromagnetic Induction		
5	20-24 February	Flux, EMF, Faraday's law and Lenz's Law		
6	27 Feb – 3 Mar	Transformers and EMR		
7	6-10 March GIPSA - Wednesday	Student Experiment – Plan and Conduct (IA2 1-3)	IA2 Handed Out L1	
8	13-17 March	Frames of Reference, Relative motion and		
		<ul> <li>Postulates of Special Relativity (3)</li> </ul>		
9	20-24 March	Student Experiment – Analyse and Evaluate (IA2 4-6)		
10	27-31 March Cross Country - Thurs	Exam Block		
School Holidays: Saturday April 1 — Sunday April 16				

#### Term 2, 2023

Week	Date	Topics	Assessment	
1	17-21 April Athletics Carnival - Wednesday	<ul> <li>Simultaneity (2)</li> <li>Student Experiment – Analyse and Evaluate (IA2 7)</li> </ul>		
2	24-28 April ANZAC Day PH - Tues	Time dilation and Length Contraction (3)	IA2 Draft Due L1	
3	1-5 May Labour Day PH - Monday GIPSA - Wednesday	Rest mass and relativistic momentum (3)		
4	8-12 May	<ul> <li>Paradoxes (1)</li> <li>Student Experiment – Drafting Conferencing (IA2 8&amp;9)</li> </ul>	IA2 Draft Returned L2	
5	15-19 May GIPSA - Wednesday	Wave model of light and Black body radiation	IA2 Final Due L1	
6	22-26 May GIPSA - Wednesday	<ul> <li>Photons and Photoelectric Effect (2)</li> <li>Research Investigation – Plan and Conduct (IA3 1)</li> </ul>	IA3 Handed Out L1	
7	29 May – 2 June	<ul> <li>Wave and particle characteristics of photons (1)</li> <li>Research Investigation – Plan and Conduct (IA3 2&amp;3)</li> </ul>		
8	5-9 June Exam Block – Tuesday L1, 2 GIPSA - Wednesday	Research Investigation – Analyse and Interpret (IA3 4-6)		
9	12-16 June	<ul> <li>Rutherford's model of the atom (2)</li> <li>Research Investigation – Evaluate and Conclude (IA3 7)</li> </ul>	IA3 Draft Due L1	
10	19-23 June	Bohr's Model of the atom (3)		
School Holidays: Saturday June 24 – Sunday July 9				



## Term 3, 2023

Week	Date	Topics	Assessment	
1	10-14 July	Wave-particle duality (1)	IA3 Draft	
		Research Investigation – Drafting Conferencing (IA2 8&9)	Returned L2	
2	17-21 July	Quantum Theory (3)	IA3 Final Due L1	
3	24-28 July	The standard model		
4	31 July – 4 August Exam Block - Thursday	The standard model		
5	7-11 August	Revision		
6	14-18 August	Revision		
7	21-25 August	Revision		
8	28 August – 1 Sept.	Revision		
9	4-8 September	Mock Exams	90min Exam	
10	11-15 September	Mock Exams		
School Holidays: Saturday September 16 – Monday October 2				

### Term 4, 2023

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Week	Date	Topics	Assessment		
1	2-6 October Queen's Birthday PH - Mon	<ul><li>Mock Exam results and feedback</li><li>EA preparation and revision</li></ul>			
2	9-13 October	EA preparation and revision			
3	16-20 October	<ul><li>No classes for Applied and Certificate subjects.</li><li>Study lessons for General subjects.</li></ul>			
4	23-27 October		External		
5	30 Oct – 3 Nov	External Exam Block	Assessment:		
6	6-10 November		Unit 3 and 4		
7	13-17 November	Graduation			