

Year 12 Physics

Work rate calendar (WRC) 2025

Term 1

All students are expected to participate in all online lessons and complete all assessment as outlined in this **Work rate calendar**.

Teachers may adjust topics, class work, assessment and submission dates. Adjustments will be communicated via QLearn or during lessons.

Assessment				
Supervised assessment		Summative exams are to be supervised by the student's official exam supervisor.		
Non-supervised assessment		Students must sign declaration of academic integrity.		
Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	27 Jan – 31 Jan	Unit 3: Gravity and Electromagnetism	Monday 27 January — Australia Day Holiday	QLearn Review Quiz
			Electric potential and energy Electrostatics review	Supervisor Safety Declaration Due Jan 31st
Magnetic fields Magnetic field strength Solenoids				
Friday 14 February — Senior orientation day: Years 10–12				
Force on a moving charge Force on a moving charge in a uniform magnetic field Mandatory practical 7.4				
Data test revision	IA1 Practice Test Due Feb 21 st			
Data test revision Review unit 3	QLearn Review Quiz W5 Checkpoint IA1 Data Test Due Feb 28th			
IA2 Student Experiment Analyse sample report, write rationale and methodology Magnetic flux	IA2 Checkpoint 1: Rationale & Method Due March 7 th			
IA2 Student Experiment Data collection, processing and analysis, and report writing	IA2 Checkpoint 2: Data & Processing Due March 14 th			
Electromagnetic induction Lenz's Law				
9	24 Mar – 28 Mar	Exams: Year 11 Monday 24 March – Friday 28 March	IA2 Draft Due March 28th	
		IA2 Student Experiment Electromagnetic induction — transformers		
10	31 Mar – 4 Apr	Thursday 3 April — Cross country / Fun run: Prep – Year 12		
		Electromagnetic Radiation and Unit 3 Review Applying draft feedback		

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Term 2

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Assessment				
Supervised assessment		Summative exams are to be supervised by the student's official exam supervisor.		
Non-supervised assessment		Students must sign declaration of academic integrity.		
Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	21 Apr – 25 Apr	Unit 4: Revolutions in Modern Physics	Monday 21 April — Easter Monday	
			Friday 25 April — Anzac Day	
Special relativity				
Inertial frames of reference and relative motion				
2	28 Apr – 2 May		Special relativity	IA2 Final Due May 2nd
Simultaneity and relativity of time				
3	5 May – 9 May		Monday 5 May — Labour Day	
			IA3 Research Investigation	
Special relativity — relativity of length, relativistic momentum, and mass to energy conversions				
4	12 May – 16 May		Special Relativity	IA3 Checkpoint: Claim Due May 16th
Paradoxical scenarios				
Quantum theory: light, blackbody radiation, and Young's Double-slit experiment				
5	19 May – 23 May	Quantum theory	QLearn Review Quiz W5 Checkpoint	
Research Investigation				
6	26 May – 30 May	Quantum Theory	IA3 Checkpoint: Research Question & Sources Due May 30th	
The photoelectric effect and momentum				
Research Investigation				
7	2 Jun – 6 Jun	Special Relativity review		
Research Investigation				
Analysing two exemplars				
8	9 Jun – 13 Jun	Quantum Theory review	IA3 Draft Due June 20th	
Chapter 11 Review				
9	16 Jun – 20 Jun	Quantum theory and Rutherford's model of the atom		
Practical 11.5: The Photoelectric Effect				
10	23 Jun – 27 Jun	Thursday 26 June — Senior formal: Year 12	Practical 11.5: Photoelectric Effect	
		Friday 27 June — Athletics carnival / Sports day: Prep – Year 12		
		Quantum theory — Bohr's model of the atom		
IA3 Research Investigation - apply draft feedback				

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Term 3

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Assessment				
Supervised assessment		Summative exams are to be supervised by the student's official exam supervisor.		
Non-supervised assessment		Students must sign declaration of academic integrity.		
Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	14 Jul – 18 Jul	Unit 4: Revolutions in Modern Physics	Quantum theory — wave-particle duality of light and Photons IA3 Research Investigation — apply draft feedback	
2	21 Jul – 25 Jul		Review Unit 4 Topics 1 and 2 IA3 Research Investigation	IA3 Final Due July 25th
3	28 Jul – 1 Aug		The Standard Model Matter and antimatter, and bosons	
4	4 Aug – 8 Aug		The Standard Model Boson, fundamental forces, and particle interactions	
5	11 Aug – 15 Aug		Wednesday 13 August — Royal Queensland (Ekka) Show Holiday The Standard Model Conservation in interactions, Feynman diagrams, symmetry in particle interaction	QLearn Review Quiz W5 Checkpoint
6	18 Aug – 22 Aug	Units 3 & 4: Revision	Unit 4 Review	Unit 4 Review Quiz
7	25 Aug – 29 Aug		Unit 3 Review	Unit 3 & 4 Practice Test
8	1 Sept – 5 Sept		Mock exams: Year 12 Monday 1 September – Thursday 4 September Friday 5 September — Student free day	
9	8 Sept – 12 Sept		Mock exams: Year 12 Monday 8 September – Friday 12 September	
10	15 Sept – 19 Sept	Exams: Year 11 Monday 15 September – Friday 19 September Friday 19 September — Connect day: Years 11–12	Mock Exam Due Sept 19th	

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Term 4

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Assessment	
Supervised assessment	Summative exams are to be supervised by the student's official exam supervisor.
Non-supervised assessment	Students must sign declaration of academic integrity.

Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	6 Oct – 10 Oct	Units 3 & 4: Revision	Monday 6 October — King's Birthday Holiday	Second Practice Mock Exam
			Unit 3 & 4 Revision	
2	13 Oct – 17 Oct		Unit 3 & 4 Revision	Third Practice Mock Exam
3	20 Oct – 24 Oct		Unit 3 & 4 Revision	Mock Exam Review
4	27 Oct – 31 Oct		Exams: Year 12	Monday 27 October – Friday 31 October
5	3 Nov – 7 Nov	Exams: Year 12	Monday 3 November – Friday 7 November	
6	10 Nov – 14 Nov	Exams: Year 12	Monday 10 November – Friday 14 November	
7	17 Nov – 21 Nov	Exams: Year 12	Monday 17 November – Tuesday 18 November	
			Wednesday 19 November — Celebration: Year 12	
			Thursday 20 November — Graduation: Year 12	
			Friday 21 November — Final day: Year 12	