

Year 12 Physics

Work rate calendar (WRC) 2024

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	22 Jan – 26 Jan	Unit 3: Gravity and Electromagnetism	Monday 22 January — Welcome calls for students: Prep – Year 12	Chapter 6.3 and Chapter 6 review QLearn Review Quiz Supervisor Safety Declaration Due Friday 26 January
			Wednesday 24 January — Learning for success: Prep – Year 12	
			Friday 26 January — Australia Day Holiday	
			Electric potential and energy	Electrostatics review
			Magnetic fields	
2	29 Jan – 2 Feb			Chapter 7.1, 7.2 and 7.3 QLearn Review Quiz
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12	Chapter 7.4 QLearn Review Quiz
			Force on a moving charge	
			Force on a moving charge in a uniform magnetic field Mandatory practical 7.4	
4	12 Feb – 16 Feb	Data test revision	QLearn Review Quiz Mandatory Practical 7.4 due IA1 Practice Test Due Friday 16 February	
5	19 Feb – 23 Feb	Data test revision	QLearn Review Quiz IA1 — Data Test Due Friday 23 February	
		Review unit 3		
6	26 Feb – 1 Mar	IA2 Student Experiment	Chapter 8.1 QLearn Review Quiz IA2 Check point: Student Experiment rationale and method Due Friday 1 March	
		Analyse sample report, write rationale and methodology Magnetic flux		
7	4 Mar – 8 Mar	IA2 Student Experiment		
		Data collection, processing and analysis, and report writing		
8	11 Mar – 15 Mar	Electromagnetic induction	QLearn Review Quiz Chapter 8.2 and 8.3	
		Lenz's Law		
9	18 Mar – 22 Mar	Exams: Year 11	QLearn Review Quiz Chapter 8.4 IA2 Student Experiment draft Due Friday 22 March	
		Monday 18 March – Friday 22 March		
		IA2 Student Experiment		
		Applying draft feedback Electromagnetic induction — transformers		
10	25 Mar – 29 Mar	Thursday 28 March — Cross country / Fun run: Prep – Year 12	QLearn Review Quiz Chapter 8.5 and Chapter 8 review	
		Friday 29 March — Good Friday		
		Electromagnetic radiation and unit 3 review		

Disclaimer: Information contained in this document is correct at time of publishing.

LEGEND	Class work — send-in	Summative assessment	Exam block	School events	Public holidays	Student free day
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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	15 Apr – 19 Apr	Unit 4: Revolutions in Modern Physics	Special relativity Inertial frames of reference and relative motion	QLearn Review Quiz Chapter 9.1 and 9.2
2	22 Apr – 26 Apr		Thursday 25 April — Anzac Day Special relativity Simultaneity and relativity of time	QLearn Review Quiz Chapter 9.3 and 9.4 IA2 – Student Experiment Final Due Friday 26 April
3	29 Apr – 3 May		IA3 Research Investigation Special relativity — relativity of length, relativistic momentum, and mass to energy conversions	QLearn Review Quiz Chapter 10.1, 10.2 and 10.3
4	6 May – 10 May		Monday 6 May — Labour Day Special Relativity Paradoxical scenarios Quantum theory: light, blackbody radiation, and Young's Double-slit experiment	QLearn Review Quiz Chapter 10.4, 11.1, 11.2 and 11.3
5	13 May – 17 May		Quantum theory Research Investigation	QLearn Review Quiz Chapter 11.4, 11.5 and 11.6 IA3 Research Investigation Checkpoint 1 – submit research question Due Friday 17 May
6	20 May – 24 May		Quantum Theory The photoelectric effect and momentum Research Investigation	QLearn Review Quiz IA3 – Checkpoint 2 Due Friday 24 May
7	27 May – 31 May		Special Relativity review Research Investigation Analysing two exemplars	Chapter 10 review
8	3 Jun – 7 Jun		Quantum Theory review Chapter 11 Review	QLearn Review Quiz IA3 – Research Investigation draft Due Friday 7 June
9	10 Jun – 14 Jun		Monday 10 June – Thursday 13 June — School camp: Year 11 Quantum theory and Rutherford's model of the atom Mandatory Practical 11.5: The Photoelectric Effect	QLearn Review Quiz Chapter 12.1
10	17 Jun – 21 Jun		Thursday 20 June — Senior formal: Year 12 Friday 21 June — Athletics carnival / Sports day: Prep – Year 12 Quantum theory — Bohr's model of the atom IA3 Research Investigation - apply draft feedback	QLearn Review Quiz Chapter 12.2 Mandatory Practical 11.5 Due Friday 21 June

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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	8 Jul – 12 Jul	Unit 4: Revolutions in Modern Physics	Quantum theory — wave-particle duality of light and Photons IA3 Research Investigation — apply draft feedback	QLearn Review Quiz Chapter 12.3
2	15 Jul – 19 Jul		Review Unit 4 Topics 1 and 2 IA3 Research Investigation	IA3 Research Investigation Final Due Friday 19 July
3	22 Jul – 26 Jul		The Standard Model Matter and antimatter, and bosons	QLearn Review Quiz Chapter 13.1 and 13.2
4	29 Jul – 2 Aug		The Standard Model Boson, fundamental forces, and particle interactions	QLearn Review Quiz Chapter 14.1 and 14.2
5	5 Aug – 9 Aug		The Standard Model Conservation in interactions, Feynman diagrams, symmetry in particle interaction	QLearn Review Quiz Chapter 14.3 Chapter 14 review
6	12 Aug – 16 Aug	Unit 3 and 4	Wednesday 14 August — Royal Queensland (Ekka) Show Holiday Unit 4 review	Unit 4 exam-style questions Unit 4 oBook practice exam
7	19 Aug – 23 Aug		Unit 3 review	Unit 4 exam-style questions Unit 4 oBook practice exam.
8	26 Aug – 30 Aug		Mock exams: Year 12 Monday 26 August – Thursday 29 August Friday 30 August — Student free day	
9	2 Sept – 6 Sept		Mock exams: Year 12 Monday 2 September – Friday 6 September	
10	9 Sept – 13 Sept		Exams: Year 11 Monday 9 September – Thursday 12 September Friday 13 September — Connect excursion: Years 10–12 Unit 3 and 4 revision	Unit 3 and 4 oBook practice Exams NEAP practice exam

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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	30 Sept – 4 Oct	Unit 3 and 4	Unit 3 and 4 revision Mock exam feedback	
2	7 Oct – 11 Oct		Monday 7 October — King's Birthday Holiday Unit 3 and 4 revision	Second practice mock exam
3	14 Oct – 18 Oct		Unit 3 and 4 revision	Third practice mock exam
4	21 Oct – 25 Oct		Exams: Year 12 Monday 21 October – Friday 25 October	
5	28 Oct – 1 Nov		Exams: Year 12 Monday 28 October – Friday 1 November	
6	4 Nov – 8 Nov		Exams: Year 12 Monday 4 November – Friday 8 November	
7	11 Nov – 15 Nov		Exams: Year 12 Monday 11 November – Wednesday 13 November Thursday 14 November — Graduation: Year 12 Friday 15 November — Final day: Year 12	