Term 1

## Year 12 Specialist Mathematics Work rate calendar (WRC) 2025

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.

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	Торіс	Class work / Assessment to be submitted
1	27 Jan – 31 Jan	numbers and mathematical induction	Monday 27 January — Australia Day Holiday Tuesday 28 January – Welcome calls: Years Prep–12 Wednesday 29 January – Learning for success: Years Prep–12 <b>Topic 3 Complex numbers 2</b> Lesson 1 Revision of complex numbers	
2	3 Feb – 7 Feb		Monday 3 February — Brainstorm Productions: Years 7–12 (11am–2pm) Lesson 1 Prove and use identities involving modulus and argument Lesson 2 Using De Moivre's Theorem to prove trig identities Lesson 3 Equations of subsets on the complex plane — lines and circles.	
3	10 Feb – 14 Feb		Friday 14 February — Senior orientation day: Years 10–12 Lessons 1 Roots of complex numbers Lessons 2 & 3 Factor and remainder theorems applied to complex numbers	
4	17 Feb – 21 Feb	number	Lesson 1 Conjugate root theorem Lessons 2 & 3 Solving complex polynomial equations	
5	24 Feb – 28 Feb	mplex	<b>Revision</b> Lessons 1, 2 & 3 Catch up and/or revision	
6	3 Mar – 7 Mar	tors, cc	Lessons 1, 2 & 3 revision	
7	10 Mar – 14 Mar	Unit 3: Vectors, complex	Lessons 1, 2 & 3 revision	
8	17 Mar – 21 Mar	Unit	<b>Revision and exam</b> Lessons 1, 2 & 3 revision and exam	IA2 Exam To be received at BrisbaneSDE by 5.00 pm Friday 21 March
9	24 Mar – 28 Mar	Unit 4: Calculus and statistics	Topic 1 Integration Lessons 1 & 2 Integration by substitution Lesson 3 Integration using trig identities	
10	31 Mar – 4 Apr		Thursday 3 April — Cross country / Fun run: Prep – Year 12Lesson 1 Inverse trig functions arcsine, arccosine, arctangentLesson 2 The derivative of the inverse trig functionsLesson 3 The integral of $\frac{\pm 1}{\sqrt{a^2-x^2}}$ and $\frac{a}{\sqrt{a^2+x^2}}$	

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Term 2

## Year 12 Specialist Mathematics Work rate calendar (WRC) 2025

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.

Asses	sment ised assess	ment	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	Торіс	Class work / Assessment to be submitted
1	21 Apr – 25 Apr		Monday 21 April — Easter Monday Tuesday 22 April – Thursday 24 April — School camp: Year 11 Friday 25 April — Anzac Day Lesson 1 Integration by parts Lesson 2 Integration by partial fractions	
2	28 Apr – 2 May		Lesson 1 Simpson's rule Lesson 2 Area between curves Lesson 3 Catch up	
3	5 May – 9 May	Ŋ	Monday 5 May — Labour Day Lesson 1 Volumes of solids of revolution Lesson 2 The probability density function Lesson 3 Catch-up	
4	12 May – 16 May	Unit 4: Calculus and statistics	Topic 2 Rates of change Lesson 1 Implicit differentiation Lesson 2 Related rates of change Lesson 3 First order differential equations	
5	19 May – 23 May	alculus	Lessons 1 & 2 First order differential equations Lesson 3 Slope fields of first order differential equations.	
6	26 May – 30 May	nit 4: Ca	Lessons 1, 2 & 3 Applications of differential equations	
7	2 Jun – 6 Jun	. <b>.</b>	Lessons 1, 2 & 3 Momentum and resultant forces	
8	9 Jun – 13 Jun	-	Lesson 1 Simple harmonic motion Lessons 2 & 3 Non-uniform motion and differential equations	
9	16 Jun – 20 Jun		<b>Topic 3 Statistical inference</b> Lessons 1, 2 & 3 Sample means, simulations and approximation of the normal distribution	
10	23 Jun – 27 Jun		Thursday 26 June — Senior formal: Year 12 Friday 27 June — Athletics carnival / Sports day: Prep – Year 12 Lesson 1 Sample statistics Lesson 2 Confidence intervals using the sample mean	

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Term 3

## Year 12 Specialist Mathematics Work rate calendar (WRC) 2025

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Asses				
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	Торіс	Class work / Assessment to be submitted
1	14 Jul – 18 Jul	Unit 4: Calculus and statistics	Lessons 1 – 3 Catch up lessons	
2	21 Jul – 25 Jul		IA3 Revision Lessons 1 – 3 Revision	
3	28 Jul – 1 Aug		Lessons 1 – 3 Revision	
4	4 Aug – 8 Aug		<b>Revision and Exam</b> Lessons 1 – 3 Revision and exam	IA3 Exam To be received at BrisbaneSDE by 5.00 pm Tuesday 5 August
5	11 Aug – 15 Aug		Wednesday 13 August — Royal Queensland (Ekka) Show Holiday   External exam preparations   Lessons 1 – 3 external exam preparations.	
6	18 Aug – 22 Aug		External exam preparations 3&4Lessons 1 – 3 external exam preparations.	
7	25 Aug – 29 Aug	Units 3 & 4 revision	External exam preparations Lessons 1 – 3 external exam preparations.	
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		Friday 19 September — Connect day: Years 11–12 Lessons 1 – 3 Revision	

blic holidays

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School events



## Year 12 Specialist Mathematics Work rate calendar (WRC) 2025

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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	Торіс	Class work / Assessment to be submitted	
1	6 Oct – 10 Oct	-	Monday 6 October — King's Birthday Holiday		
			Revision		
			Lessons 1 – 3 Revision		
2	13 Oct – 17 Oct		Lessons 1 – 3 Revision		
3	20 Oct – 24 Oct		Lessons 1 – 3 Revision		
4	27 Oct –	-	Exams: Year 12		
	31 Oct		Monday 27 October – Friday 31 October		
5	3 Nov –	-	Exams: Year 12		
	7 Nov	<u>io</u>	Monday 3 November – Friday 7 November		
6	10 Nov –	š	Exams: Year 12		
	14 Nov	4 re	Monday 10 November – Friday 14 November		
7	17 Nov –	Units 3 & 4 revision	Exams: Year 12		
	21 Nov		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		
			Friday 21 November — Aquatic carnival: Prep – Year 11		
8	24 Nov –	-			
	28 Nov				
9	1 Dec –				
	5 Dec				
10	8 Dec –				
	12 Dec				

Term 4