

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

Summative exams are to be supervised by the student's official exam supervisor. Supervised assessment

Non-supervised assessment Students must sign declaration of academic integrity.

Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	27 Jan –		Monday 27 January — Australia Day Holiday	
	31 Jan		Tuesday 28 January – Welcome calls: Years Prep–12	
			Wednesday 29 January – Learning for success: Years Prep–12	
			Topic 1 Combinatorics	
			Lesson 1 Counting techniques	
2	3 Feb –		Monday 3 February — Brainstorm Productions: Years 7–12 (11am–2pm)	
	7 Feb		Lesson 1 Factorial and permutations	
			Lesson 2 Permutations involving restrictions and applications	
			Lesson 3 Combinations	
3	10 Feb –		Friday 14 February — Senior orientation day: Years 10–12	
	14 Feb		Lesson 1 Applications of combinations and permutations	
			Topic 2 Introduction to proofs	
			Lesson 2 Number systems, terminology of proofs	
		S	Lesson 3 Proof by counter example and direct proofs	
4	17 Feb –	and matrices	Lesson 1 Proof by contradiction	
	21 Feb	nat	Topic 3 Vectors in the plane	
		<u> </u>	Lesson 2 Vectors and Scalars	
		s an	Lesson 3 Vectors in two dimensions – polar form	
5	24 Feb –	- ors	Lesson 1 Vectors in two dimensions – polar form	
	28 Feb	rect	Lesson 2 Vectors in two dimensions – component form	
		Unit 1: Combinatorics, proof, vectors	Lesson 3 Vectors in two dimensions – unit vectors	
6	3 Mar –	oro	Topic 5 Matrices	
	7 Mar	δί	Lesson 1 Matrix definition and notation, addition, subtraction and scalar	
		oric	multiplication	
		nat	Lesson 2 Matrix multiplication	
		nbiı	Lesson 3 Determinants and inverses	
7	10 Mar –	1ar –	Lesson 1 Matrix algebra and solving matrix equations	
	14 Mar		Lesson 2 Solving 2 x 2 linear equations	
		i i	Lesson 3 Catch up	
8	17 Mar –	_	Revision	
	21 Mar		Lessons 1 – 3 Revision	
9	24 Mar –		Exams: Year 11	FA1 (Exam)
9	24 Mar –		Monday 24 March – Friday 28 March	Due to be received at
			Revision and exam	BrisbaneSDE by 5pm
			FA1 - exam is based on Unit 1 Topics 1, 2, 3 and 5 material.	Friday 28 March
			i í í	FA2 (PSMT)
				Released in QLearn
				Friday 28 March
10	31 Mar –		Thursday 3 April — Cross country / Fun run: Prep – Year 12	FA2 (PSMT)
	4 Apr		Topic 4 Algebra of Vectors in two dimensions	Checkpoint 1
			Lesson 1 FA2 Introduction and Overview	To be uploaded to QLearn
			Lesson 2 Vector representations and Vector operations	Friday 4 April
			Lesson 3 Assignment Lesson	



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Term 2

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Assessment

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Week	Dates	Unit	Торіс	Class work / Assessment to be submitted
1	21 Apr – 25 Apr	ectors and	Monday 21 April — Easter Monday Tuesday 22 April — Thursday 24 April — School camp: Year 11 Friday 25 April — Anzac Day Topic 4 Algebra of Vectors in two dimensions (continued) Lessons 1 – 3 Catch up (if available)	
2	28 Apr – 2 May	torics, proof, ve	Lessons 1 – 2 Assignment lessons Lesson 3 Scalar product	FA2 (PSMT) Checkpoint 2: Draft To be uploaded to QLearn by 5pm Friday 2 May
3	5 May – 9 May	Unit 1: Combinatorics, proof, vectors and matrices	Monday 5 May — Labour Day Lesson 1 Parallel and perpendicular vectors Lesson 2 Scalar and vector resolute Lesson 3 Catch up (if available)	
4	12 May – 16 May	Unit	Lesson 1 Draft feedback Lessons 2 – 3 Application of Forces in two dimensions – Forces and equilibrium including inclined planes	
5	19 May – 23 May	functions	Topic 1 Complex numbers Lesson 1 Introduction to complex numbers Lesson 2 Basic operations on complex numbers Lesson 3 Complex conjugates and division of complex numbers	FA2 (PSMT) Checkpoint 3: Final To be uploaded to QLearn by 5pm Monday 19 May
6	26 May – 30 May	further proof, trigonometry, functions transformations.	Lesson 1 The complex plane Topic 2 Complex arithmetic and algebra Lesson 2 Complex numbers – magnitude and argument Lesson 3 Cartesian and polar form	
7	2 Jun – 6 Jun	further proof, tr transformations	Lesson 1 Operations in complex form Lesson 2 Geometric interpretations of multiplication and division of complex numbers Lesson 3 Subsets of the complex plane	
8	9 Jun – 13 Jun	nbers, fur and trar	Lessons 1 – 3 Roots of equations	
9	16 Jun – 20 Jun	Unit 2: complex numb	Topic 3 Circle and geometric proofs Lesson 1 Circle properties – Theorems 1, 2 and 3 Lesson 2 Circle properties – Theorems 4 and 5 Lesson 2 Circle properties – Theorem 6	
10	23 Jun – 27 Jun	Unit 2: c	Friday 27 June — Athletics carnival / Sports day: Prep – Year 12 Lesson 1 – 2 Geometric proofs using vectors Lesson 3 Catch up	



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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	further proof, trigonometry, functions and ransformations.	Topic 4 Trigonometry and functions Lesson 1 Sketching graphs Lesson 2 Reciprocal trigonometric functions Lesson 3 Graphs of reciprocal trigonometric functions	
2	21 Jul – 25 Jul		Lesson 1 Pythagorean identities Lesson 2 Angle sum and difference for sines and cosines Lesson 3 Double-angle identities	
3	28 Jul – 1 Aug		Lesson 1 Product-sum identities Lesson 2 Applications of trigonometric identities Lesson 3 Applications of trigonometric identities	
4	4 Aug – 8 Aug	further proof, tri transformations.	Topic 5 Matrices and transformations Lesson 1 Matrices and transformations – translations and reflections Lesson 2 Matrices and transformations – rotations and dilations Lesson 3 Combination of transformations	
5	11 Aug – 15 Aug	Unit 2: complex numbers, furt	Wednesday 13 August — Royal Queensland (Ekka) Show Holiday Lesson 1 The inverse of linear transformations and interpreting the determinant of the transformation matrix Revision Lesson 2 Revision – Resources in QLearn	
6	18 Aug – 22 Aug	эрисо	Revision Lesson 1 – 3 Revision – Resources in QLearn	
7	25 Aug – 29 Aug	Unit 2:	Revision and exam FA3 - exam is based on Unit 2 material.	FA3 (Exam) To be received at BrisbaneSDE by 5pm Friday 29 August
8	1 Sept – 5 Sept	Unit 3: Further complex numbers, proof, vectors and matrices	Friday 5 September — Student free day Topic 5 Further Matrices Lesson 1 Applications of matrices — Dominance/Leslie Lesson 2 Applications of matrices — Dominance/Leslie	IA1 (PSMT) Released in QLearn Friday 5 September
9	8 Sept – 12 Sept		Lesson 1 IA1 Overview Lessons 2 – 3 IA1 Lessons	
10	15 Sept – 19 Sept	Unit 3: Further co numbers, proof, v matrices	Exams: Year 11 Monday 15 September – Friday 19 September Friday 19 September — Connect day: Years 11–12	IA1 (PSMT) Checkpoint 1 To be uploaded to QLearn Wednesday 17 September



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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.
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Week	Dates	Unit	Topic	Class work / Assessment to be submitted									
1	6 Oct –		Monday 6 October — King's Birthday Holiday										
	10 Oct		Lesson 1 IA1 Lesson										
2	13 Oct –		Lesson 1 Matrix algebra										
	17 Oct		Lesson 2 Gaussian elimination										
		Sec	Lesson 1 Geometric interpretation of solutions										
3	20 Oct –		Topic 2 Mathematical induction and further proofs	IA1 (PSMT)									
	24 Oct	atri	Lesson 1 Introduction to Mathematical induction	Checkpoint 2: Draft									
		Ĕ	Lesson 2 Summation proofs	To be uploaded to QLearn									
		s and	Lesson 3 Divisibility proofs	by 5pm Monday 20 October									
4	27 Oct – 31 Oct	rector	Lesson 1 Proof of DeMoivre's theorem and multi-angle trigonometric identities proofs.										
		ř, v	Topic 3 Vectors in two and three dimensions										
		oroo	Lessons 2 – 3 Introduction to vectors in three-dimensions										
5	3 Nov –	s,	Lesson 1 Scalar product										
	7 Nov	ber	Lesson 2 Vector projections.										
		E n	Lesson 3 Geometric proofs including 3D vectors										
6	10 Nov –	ex r	Lesson 1 Applications involving displacement, force and relative velocity	IA1 (PSMT)									
	14 Nov	ldu	Lesson 2 Equations of spheres and parametric equations	Checkpoint 3: Final									
		Unit 3: Further complex numbers, proof, vectors and matrices	Lesson 3 Vector equations, parametric equations and cartesian equations of straight lines	To be uploaded to QLearn by 5pm Friday 14 November									
7	17 Nov –	2	Friday 21 November — Aquatic carnival: Prep – Year 11										
	21 Nov	21 Nov	21 Nov	it 3	Lesson 1 Vector products and normal vectors								
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			Lesson 3 Cartesian equation of the path given as a vector equation										
8	24 Nov –		Exams: Year 11										
	28 Nov		Monday 24 November – Friday 28 November										
			Friday 28 November — Final day: Years 10–11										
9	1 Dec – 5 Dec												
	o Dec												
10	8 Dec –												
	12 Dec												