

Year 10 Mathematics - Standard

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 1	Monday 22 January — Welcome calls for students: Prep – Year 12	
			Wednesday 24 January — Learning for success: Prep – Year 12	
			Friday 26 January — Australia Day Holiday	
			Introductions, expectations and accessing subject materials	
2	29 Jan – 2 Feb		Topic 1: Measurement	As per Learning Guide
			2.2 Substitution into & rearranging formula	
			6.3 Compound surface area (2 lessons)	
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12	PAT-M Test
			6.4 Compound volume (2 lessons)	Complete by 5:00 pm Friday 9 February
4	12 Feb – 16 Feb			Revision and complete SA1 Exam
5	19 Feb – 23 Feb	Topic 2: Algebra and equations	As per Learning Guide	
		1.5 Review index laws		
		1.6 Negative indices		
		2.4 Multiply algebraic fractions		
6	26 Feb – 1 Mar		2.4 Divide algebraic fractions	As per Learning Guide
			2.3 Add & subtract algebraic fractions	
			7.2 Expand single brackets (common algebraic factor)	
7	4 Mar – 8 Mar		7.4 Factorise into single brackets (common algebraic factor)	As per Learning Guide
			7.2 Expand double brackets (2 lessons)	
8	11 Mar – 15 Mar		7.3 Factorise monic quadratic expressions	As per Learning Guide
			2.5 Solve equations using all algebra skills (2 lessons)	
9	18 Mar – 22 Mar		Revision and complete SA2 Exam	SA2 - Exam: To be submitted by 5.00pm Friday 22 March
10	25 Mar – 29 Mar	Thursday 28 March — Cross country / Fun run: Prep – Year 12		
		Friday 29 March — Good Friday		
		Revision for Topic 3: Geometry		

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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.		
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Week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	15 Apr – 19 Apr	Unit 2	Topic 3: Geometry Solve spatial problems: Similarity (sides to area) Solve spatial problems: Similarity (area to volume) Solve spatial problems: Similarity (Prove similarity)	As per Learning Guide
2	22 Apr – 26 Apr		Thursday 25 April — Anzac Day Topic 4: Trigonometry 5.4 Review trigonometric ratios 5.5 Calculate unknown sides	As per Learning Guide
3	29 Apr – 3 May		5.6 Calculate unknown angles 5.7 Angles of elevation and depression (2 lessons)	As per Learning Guide
4	6 May – 10 May		Monday 6 May — Labour Day 5.8 Compass and True bearings 5.2 Pythagoras' theorem and bearings	As per Learning Guide
5	13 May – 17 May		5.8 Solve bearings problems Topic 5: Compound interest 1.9 Calculate compound interest (using a table) 1.9 Calculate compound interest (formula - annual compounds)	As per Learning Guide
6	20 May – 24 May	Unit 3	1.9 Calculate compound interest (formula – various compounds)	As per Learning Guide
7	27 May – 31 May		Revision and complete SA3 Exam	SA3 - Exam: To be submitted by 5.00pm Friday 31 May
8	3 Jun – 7 Jun		Topic 6: Linear and non-linear relationships Linear relationships – algebraic and graphical representations Parallel and perpendicular lines Exponential relationships – algebraic and graphical representations	As per Learning Guide
9	10 Jun – 14 Jun		Solve problems involving exponential relationships	As per Learning Guide
10	17 Jun – 21 Jun	Friday 21 June — Athletics carnival / Sports day: Prep – Year 12 Quadratic relationships – algebraic and graphical representations Circles – algebraic and graphical representations	As per Learning Guide	

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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 3	Topic 6: Linear and non-linear relationships Formative task - Modelling an exponential relationship (2 lessons) SA4 Overview	SA4 - PSMT Released: Thursday 11 July
2	15 Jul – 19 Jul		SA4 Formulate SA4 Interpret SA4 Evaluate	SA4 - PSMT checkpoint: To be submitted by 5.00pm Wednesday 17 July
3	22 Jul – 26 Jul		Wednesday 24 July – Friday 26 July — SET plan meetings: Year 10 SA4 Communication	SA4 - PSMT DRAFT: To be submitted by 5pm Wednesday 24 July
			Topic 7: Statistics Statistics in the media (2 lessons)	
4	29 Jul – 2 Aug		Variables and statistical tools Two-way tables (2 lessons)	SA4 - PSMT Final: To be submitted by 5pm Friday 02 August
5	5 Aug – 9 Aug		Scatter plots (2 lessons) Time-series graphs	As per Learning Guide
6	12 Aug – 16 Aug		Wednesday 14 August — Royal Queensland (Ekka) Show Holiday Conducting a statistical investigation (2 lessons)	As per Learning Guide
7	19 Aug – 23 Aug		12.4 5-number summary and IQR 12.4 Construct box plots	As per Learning Guide
8	26 Aug – 30 Aug		Friday 30 August — Student free day 12.4 Discuss distributions of parallel box plots 12.4 Discuss distributions of alternate data displays	As per Learning Guide
9	2 Sept – 6 Sept		Revision and complete SA5 Exam	SA5 - Exam: To be submitted by 5pm Friday 06 September
10	9 Sept – 13 Sept	Friday 13 September — Connect excursion: Years 10–12 Revision – general equation of a line and graphing lines by hand		

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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	30 Sept – 4 Oct	Unit 4	Topic 8: Simultaneous linear equations and inequalities 4.2 Graphing method (2 lessons) 4.3 Substitution method	As per Learning Guide
2	7 Oct – 11 Oct		Monday 7 October — King's Birthday Holiday 4.3 Substitution method (practice) 4.4 Elimination method (simple)	As per Learning Guide
3	14 Oct – 18 Oct		Monday 14 October – Wednesday 16 October — School camp: Years 9–10 4.4 Elimination method (complex)	As per Learning Guide
4	21 Oct – 25 Oct		4.5 Applications – solving simultaneous equations (2 lessons) 4.7 Graph linear inequalities	As per Learning Guide
5	28 Oct – 1 Nov		4.7 Solve inequalities (2 lessons)	As per Learning Guide
6	4 Nov – 8 Nov		Revision and complete SA6 Exam	SA6 - Exam: To be submitted by 5pm Friday 08 November
7	11 Nov – 15 Nov		Topic 9: Probability Introduce conditional probability Conditional probability – Venn diagrams Conditional probability – Tree diagrams	As per Learning Guide
8	18 Nov – 22 Nov		Friday 22 November — Aquatic carnival: Prep – Year 11 Friday 22 November — Final day: Years 10–11 Model conditional probability	As per Learning Guide
9	25 Nov – 29 Nov			
10	3 Dec – 6 Dec			
11	9 Dec – 13 Dec			