

Year 10 Mathematics Extension

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 1	Monday 27 January — Australia Day Holiday	PAT-M Testing	
			Tuesday 28 January – Welcome calls: Years Prep–12	To be submitted by Friday	
			Wednesday 29 January – Learning for success: Years Prep–12	31 January	
Introduction to Mathematics Extension			Class work – As per Learning Guide		
2	3 Feb – 7 Feb		Monday 3 February — Brainstorm Productions: Years 7–12 (11am–2pm)	SA1 Assignment	
			Topic 1 Statistics – univariate data		Released week 2
			Lesson 1 Introduction to SA1		
			Lesson 2 12.2/12.3 Measures of central tendency / spread – range		
			Lesson 3 12.5 Measure of spread — standard deviation		
3	10 Feb – 14 Feb		Friday 14 February — Senior orientation day: Years 10–12		
		Lesson 1 12.3 Measure of spread — IQR			
		Lesson 2 12.4 Box and whisker plots			
		Lesson 3 Catch up if available			
4	17 Feb – 21 Feb	Lesson 1 Assignment lesson			
		Lesson 2 12.4 Outliers (worksheet)			
		Lesson 3 12.6 Comparing data sets			
5	24 Feb – 28 Feb	Lesson 1 Assignment lesson	SA1 Assignment - Draft		
		Lesson 2 12.8 Evaluating inquiry methods/statistical reports	To be submitted by 5pm		
		Topic 2 Linear relationships		Wednesday 26 February	
		Lesson 3 2.5 Solving simple equations			
6	3 Mar – 7 Mar	Lesson 1 2.6 Solving multistep equations			
		Lesson 2 4.2 Graphing linear equations (x and y intercepts, using gradient and y intercept)			
		Lesson 3 4.3 Determining linear equations			
7	10 Mar – 14 Mar	Lesson 1 Assignment lesson			
		Lesson 2 4.9 Solving linear inequalities			
		Lesson 3 4.10 Solving linear inequalities on a cartesian plane			
8	17 Mar – 21 Mar	Topic 3 Geometry		SA1 Assignment - Final	
		Lesson 1 10.2 Angles, triangles, and congruence	To be submitted by 5pm		
		Lesson 2 10.3 Scale factor and similar triangles	Monday 17 March		
		Lesson 3 Introduction to Pythagoras and trigonometry (5.2, 5.4-5.6)			
9	24 Mar – 28 Mar	Lesson 1 5.7 Angles of elevation and depression			
		Lesson 2 5.8 Bearings			
		Lesson 3 5.8 Bearings			
10	31 Mar – 4 Apr	Thursday 3 April — Cross country / Fun run: Prep – Year 12			
		Quadratics – pre learning			
		Lesson 1 Expanding binomials			
		Lesson 2 Difference of two squares			
		Lesson 3 Catch up if available			

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

Year 10 Mathematics Extension

Work rate calendar (WRC) 2025

Term 2

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	21 Apr – 25 Apr	Unit 1	Monday 21 April — Easter Monday	As per Learning Guide	
			Friday 25 April — Anzac Day		
Topic 4 Quadratics					
Lesson 1	7.4 Factorising expressions with 2 or 4 terms				
Lesson 2	7.3 Factorising expressions with 3 terms (non-monic)				
2	28 Apr – 2 May		Lesson 1	7.3 Factorising expressions with 3 terms (non-monic)	
Lesson 2	7.3 Factorising expressions with 3 terms (monic)				
Lesson 3	7.6 Mixed factorisation				
3	5 May – 9 May		Monday 5 May — Labour Day		
Lesson 1	8.4 Solving quadratic equations graphically				
Lesson 2	8.2 Solving quadratic equations algebraically				
Lesson 3	Catch up if available				
4	12 May – 16 May	Lesson 1	8.2 Solving quadratic equations algebraically		
Lesson 2	8.3 The quadratic formula / 8.5 The discriminant				
Lesson 3	8.2/8.3 Word problems				
5	19 May – 23 May	Lesson 1	8.2/8.3 Word problems		
Topic 5 Probability					
Lesson 2	11.2 Review Probability and representations of compound events				
Lesson 3	11.3/11.4 Tree diagrams				
6	26 May – 30 May	Lesson 1	11.5 Conditional probability		
Revision					
Lesson 2-3	Revision				
7	2 Jun – 6 Jun	Revision and completion of exam on Topics 2-5		SA2 – Exam To be submitted by 5pm Friday 6 June	
8	9 Jun – 13 Jun	Topic 6 Statistics – bivariate data		SA3 Statistical Investigation Released week 8 through Teams Assignment	
Lesson 1	13.3 Bivariate data - two-way frequency tables				
Lesson 2	13.2 Bivariate data - numerical				
Lesson 3	Graphing scatterplots using technology (excel)				
9	16 Jun – 20 Jun	Lesson 1	13.4/13.5 Regression lines		
Lesson 2	13.6 Time series				
Lesson 3	Investigation write up lesson				
10	23 Jun – 27 Jun	Friday 27 June — Athletics carnival / Sports day: Prep – Year 12		SA3 Statistical Investigation To be submitted by 5pm Wednesday 25 June through Teams Assignment	
Lesson 1	Investigation write up lesson				
Lesson 2	SA2 Review				
Lesson 3	Catch up if available				

Year 10 Mathematics Extension

Work rate calendar (WRC) 2025

Term 3

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	14 Jul – 18 Jul	Unit 2	Topic 7 Simultaneous equations Lesson 1 4.4 Solving simultaneous equations — intro/graphing Lesson 2 4.5 Solving simultaneous equations using substitution Lesson 3 4.6 Solving simultaneous equations using elimination	As per Learning Guide
2	21 Jul – 25 Jul		Lesson 1 4.7 Applications of simultaneous linear equations Lesson 2 4.7 Applications of simultaneous linear equations Topic 8 Functions and relations Lesson 3 9.2 Functions and relations	
3	28 Jul – 1 Aug		Wednesday 30 July – Friday 1 August — SET plan meetings: Year 10 Lesson 1 9.2 Function notation/investigating functions and relations Lesson 2 9.8 Circles Topic 9 Exponentials and Logarithms Lesson 2 1.5 Review of index laws	
4	4 Aug – 8 Aug		Lesson 1 1.6 Negative indices Lesson 2 1.8 Combining index laws Lesson 3 1.9 Log scales	
5	11 Aug – 15 Aug		Wednesday 13 August — Royal Queensland (Ekka) Show Holiday Lesson 1 1.9 Logarithms Lesson 2 1.10 Log laws Lesson 3 Catch up if available	
6	18 Aug – 22 Aug		Lesson 1 1.11 Solving equations with logarithms Lesson 2 1.11 Solving equations with logarithms Lesson 3 9.3 Exponential growth and decay	
7	25 Aug – 29 Aug		Lesson 1 9.3 Solving exponential equations Lesson 2 9.5 Compound interest (application of exponential growth) Lesson 3 9.10 Modelling exponential equations	
8	1 Sept – 5 Sept		Friday 5 September — Student free day Revision Lesson 1-2 Revision	
9	8 Sept – 12 Sept		Revision and completion of SA4 exam on Topics 7-9	SA4 Exam To be submitted by 5pm Friday 12 September
10	15 Sept – 19 Sept		Wednesday 17 September — Connect day: Years 9–10 Topic 10 Surface area and volume Lesson 1 6.4 Volume Lesson 2 6.4 Volume Lesson 3 Catch up if available (SA4 Review)	

Year 10 Mathematics Extension

Work rate calendar (WRC) 2025

Term 4

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	6 Oct – 10 Oct	Unit 2	Monday 6 October — King's Birthday Holiday	As per Learning Guide
			Topic 10 Surface area and volume cont'd	
			Lesson 1 6.3 Total surface area	
			Topic 11 Trigonometry	
			Lesson 2 15.2 The sine rule	
			Lesson 3 Catch up if available	
2	13 Oct – 17 Oct		Lesson 1 15.2 The sine rule	
			Lesson 2 15.3 The cosine rule	
			Lesson 3 15.3 The cosine rule	
3	20 Oct – 24 Oct		Monday 20 October — Wednesday 22 October — School camp: Years 9-10	
		Lesson 1 15.4 Area of a triangle		
		Lesson 2-3 Non-camp activities		
4	27 Oct – 31 Oct	Topic 12 Surds		
		Lesson 1 1.2 / 1.3 Rational and irrational numbers, and surds		
		Lesson 2 1.7 Fractional indices and surds		
5	3 Nov – 7 Nov	Revision		
		Lesson 1-3 Revision		
		Revision and completion of SA5 exam on Topics 10-12		
6	10 Nov – 14 Nov		SA5 Exam	
			To be submitted by 5pm Friday 14 November	
7	17 Nov – 21 Nov	Unit 3	Friday 21 November — Aquatic carnival: Prep – Year 11	
			Topic 13 The unit circle	
			Lesson 1 15.5 The unit circle	
			Lesson 2-3 15.6 Trigonometric functions	
8	24 Nov – 28 Nov		Friday 28 November — Final day: Years 10–11	
			Lesson 1 15.7 Solving trigonometric equations	
			Lesson 2 SA5 Review	
9	1 Dec – 5 Dec		Lesson 3 Last lesson	
10	8 Dec – 12 Dec			