Term 1

Year 10 Mathematics Extension Work rate calendar (WRC) 2024

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.

	sment ⁄ised assess	ment	Summative exams are to be supervised by the student's official exam supervise	or
			ent Students must sign declaration of academic integrity.	
Week	Dates	Unit	Торіс	Class work / Assessmen to be submitted
1	22 Jan – 26 Jan		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 Introduction to Mathematics Extension	PAT-M TestingTo be submitted by 5pmThursday 25 January
2	29 Jan – 2 Feb	Unit 1	Topic 1 Surface area and volumeLesson 16.3 Total surface areaLesson 26.3 Total surface areaLesson 3SA1 introduction	As per Learning Guide
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12Lesson 16.4 VolumeLesson 26.4 VolumeLesson 3Catch up if available	As per Learning Guide
4	12 Feb – 16 Feb		Lessons 1–3 Working on SA1	SA1 Draft To be submitted by 5pm Friday 16 February
5	19 Feb – 23 Feb		Topic 2 ChanceLesson 111.2 Review of probabilityLesson 211.3 Tree diagramsLesson 311.4 Dependent and independent events	As per Learning Guide
6	26 Feb – 1 Mar		Lesson 111.5 Conditional probabilityTopic 3 Linear relationshipsLesson 22.2 SubstitutionLesson 32.5 Solving simple equations	SA1 Final To be submitted by 5pm Friday 1 March
7	4 Mar – 8 Mar		Lesson 12.6 Solving multistep equationsLesson 23.3 Determining linear equationsLesson 33.4 Parallel and perpendicular lines	As per Learning Guide
8	11 Mar – 15 Mar		Lesson 14.7 Solving linear inequalitiesLesson 24.7 Solving linear inequalitiesTopic 4 GeometryLesson 310.2 Angles, triangles, and congruence	As per Learning Guide
9	18 Mar – 22 Mar		Lesson 110.3 Similar trianglesLesson 2Introduction to Pythagoras and trigonometryLesson 35.7 Angles of elevation and depression	As per Learning Guide
10	25 Mar – 29 Mar		Thursday 28 March — Cross country / Fun run: Prep – Year 12Friday 29 March — Good FridayLesson 15.8 BearingsLesson 25.8 BearingsLesson 3Catch up if available	As per Learning Guide

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Term 2

Year 10 Mathematics Extension Work rate calendar (WRC) 2024

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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
1	15 Apr – 19 Apr		Topic 5 Qua Lesson 1 Lesson 2 Lesson 3	Idratics 7.2 Expanding algebraic expressions 7.4 Factorising expressions with 2 or 4 terms 7.3 Factorising expressions with 3 terms (non-monic)	As per Learning Guide		
2	22 Apr – 26 Apr		Thursday 25 Lesson 1 Lesson 2 Lesson 3	April — Anzac Day 7.3 Factorising expressions with 3 terms (non-monic) 7.3 Factorising expressions with 3 terms (monic) Catch up if available	As per Learning Guide		
3	29 Apr – 3 May		Lesson 1 Lesson 2 Lesson 3	7.6 Mixed factorisation8.4 Solving quadratic equations graphically8.2 Solving quadratic equations algebraically	As per Learning Guide		
4	6 May – 10 May		Monday 6 M Lesson 1 Lesson 2 Lesson 3	ay — Labour Day 8.2 Solving quadratic equations algebraically 8.3 The quadratic formula Catch up if available	As per Learning Guide		
5	13 May – 17 May	Unit 1	Lesson 1 Lesson 2 Lesson 3	8.2/8.3 Word problems 9.5 Sketching parabolas of the form $y = ax^2 + bx + c$ 9.5 Sketching parabolas	As per Learning Guide		
6	20 May – 24 May	5	Revision		See QLearn/OneNote		
7	27 May – 31 May		Revision an	d completion of SA2 – Exam (Topics 1 – 5)	SA2 – Exam To be submitted by 5pm Friday 31 May		
8	3 Jun – 7 Jun		Topic 6A St Lesson 1 Lesson 2 Lesson 3	atistics – bivariate data 13.2 Bivariate data, graphing scatterplots using technology 13.3 Using excel 13.3 Lines of best fit	As per Learning Guide		
9	10 Jun – 14 Jun		Lesson 1 Lesson 2 Lesson 3	13.5 Time series 12.8 Evaluating inquiry methods/statistical reports SA3 – In class exam (Topic 6A) - Education Perfect	SA3 – In class exam To be submitted by 5pm Friday 14 June		
10	17 Jun – 21 Jun		Friday 21 Ju Enrichment Lesson 1 Lesson 2 Lesson 3	ne — Athletics carnival / Sports day: Prep – Year 12 topic Completing the square Completing the square Catch up if available			

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Year 10 Mathematics Extension Work rate calendar (WRC) 2024

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	sment				
-	ised assess			e exams are to be supervised by the student's official exam supervisor. nust sign declaration of academic integrity.	
Week	-	Unit	Topic	nust sign declaration of academic integrity.	Class work / Assessmer to be submitted
1	8 Jul – 12 Jul		Topic 6B S Lesson 1 Lesson 2 Lesson 3	tatistics – univariate data 12.2/12.3 Measures of central tendency / spread – range 12.2/12.3 Measures of central tendency / spread – range 12.5 Measure of spread — standard deviation	As per Learning Guide
2	15 Jul – 19 Jul		Lesson 1 Lesson 2 Lesson 3	12.3 Measure of spread — IQR 12.4 Box and whisker plots 12.6 Comparing data sets	As per Learning Guide
3	22 Jul – 26 Jul	-		 24 July – Friday 26 July — SET plan meetings: Year 10 nultaneous equations 4.2 Solving simultaneous equations — intro/graphing 4.3 Solving simultaneous equations using substitution 4.4 Solving simultaneous equations using elimination 	As per Learning Guide
4	29 Jul – 2 Aug		Lesson 1 Lesson 2 Lesson 3	4.5 Applications of simultaneous linear equations 4.5 Applications of simultaneous linear equations Revision	As per Learning Guide
5	5 Aug – 9 Aug		Revision ar	nd completion of SA4 – Exam (Topics 6B and 7)	SA4 – Exam To be submitted by 5pm Friday 9 August
6	12 Aug – 16 Aug	Unit 2		 14 August — Royal Queensland (Ekka) Show Holiday ices and surds 1.5 Review of index laws 1.6 Negative indices Catch up if available 	As per Learning Guide
7	19 Aug – 23 Aug		Lesson 1 Lesson 2 Lesson 3	1.7 Fractional indices1.8 Combining index laws1.3 Surds / 1.4 Operations with surds	As per Learning Guide
8	26 Aug – 30 Aug		Friday 30 A Lesson 1 Lesson 2 Lesson 3	ugust — Student free day 1.4 Operations with surds (simplifying, multiply) 1.4 Operations with surds (add, subtract, divide) Catch up if available	As per Learning Guide
9	2 Sept – 6 Sept		Lesson 1 Topic 9 Log Lesson 2 Lesson 3	 1.4 Operations with surds (rationalise denominators) garithms 1.10 Logarithms 1.11 Log laws 	As per Learning Guide
10	9 Sept – 13 Sept		Friday 13 So Lesson 1 Lesson 2 Lesson 3	eptember — Connect excursion: Years 10–12 1.12 Solving equations 1.12 Solving equations Catch up if available	As per Learning Guide

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Term 3

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	Торіс	Class work / Assessment to be submitted		
1	30 Sept -		Topic 10 Trigonometry	As per Learning Guide		
	4 Oct	ct	Lesson 1 17.2 The sine rule			
			Lesson 2 17.2 The sine rule			
			Lesson 3 17.3 The cosine rule			
2	7 Oct –		Monday 7 October — King's Birthday Holiday	As per Learning Guide		
	11 Oct		Lesson 1 17.3 The cosine rule			
			Lesson 2 17.4 Area of a triangle			
			Lesson 3 Catch up if available			
3	14 Oct -		Monday 14 October – Wednesday 16 October — School camp: Years 9–10	As per Learning Guide		
	18 Oct	18 Oct	18 Oct	2	Topic 11 Finance and exponential functions	
		Unit 2	Lesson 1 1.9 Compound interest			
			Lesson 2 Non camp activities			
			Lesson 3 Non camp activities			
4	21 Oct -		Lesson 1 1.9 Compound interest	As per Learning Guide		
	25 Oct		Lesson 2 15.3 Applications of exponential functions			
			Lesson 3 15.3 Applications of exponential functions			
5	28 Oct – 1 Nov		Revision	See QLearn/OneNote		
6	4 Nov –		Revision and completion of SA5 – Exam (Topics 6B – 11)	SA5 – Exam		
	8 Nov			To be submitted by 5pm Friday 8 November		
7	11 Nov –		Topic 12 Functions and relations	As per Learning Guide		
	15 Nov		Lesson 1 15.2 Functions and relations			
			Lesson 2 9.9 Circles			
		t 3	Lesson 3 DESMOS Activity (if available)			
8	18 Nov –	Unit 3	Friday 22 November — Aquatic carnival: Prep – Year 11	As per Learning Guide		
	22 Nov		Friday 22 November — Final day: Years 10–11			
			Lesson 1 15.6 Transformations			
			Lesson 2 SA5 Review			
9	25 Nov –					
	29 Nov					
10	3 Dec – 6 Dec					
11	9 Dec –					
	13 Dec					

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