Year 12 Mathematical Methods 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.

Non-supervised assessment Students must sign declaration of academic integrity.				
Week	Dates	Unit	Торіс	Class work / Assessment 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 Lesson 1 Review of Unit 3 work covered in Year 11	Refer to Learning Guides
2	29 Jan – 2 Feb		Topic 3 Integrals Lesson 1 Indefinite integrals, constant of integration Lesson 2 Indefinite integrals, linear motion applications Lesson 3 Differentiation review	
3	5 Feb – 9 Feb		Friday 9 February — Senior orientation day: Years 10–12 Lesson 1 Integration by recognition Lesson 2 Integration by recognition Lesson 3 Catch up/Tutorial	
4	12 Feb – 16 Feb	Unit 3	Lesson 1 Area approximation, trapezoidal rule Lesson 2 Fundamental theorem of calculus Lesson 3 Applications of integration — area under a curve	
5	19 Feb – 23 Feb		Lesson 1 Applications of integration — area between curves Lesson 2 Applications of integration — total change Lesson 3 Applications of integration — displacement given acceleration and initial conditions	
6	26 Feb – 1 Mar		Revision Lessons 1 – 3 Revision	
7	4 Mar – 8 Mar		Lessons 1 – 3 Revision	
8	11 Mar – 15 Mar		Revision and Exam Lessons 1 – 3 Revision	IA2 ExamTo be received atBrisbaneSDE by 5 pmFriday 15 March
9	18 Mar – 22 Mar	4	Topic 3 Discrete random variables 2Lesson 1 Bernoulli random variables, mean and varianceLesson 2 Binomial random variables including conditional probabilityLesson 3 Applications of binomial random variables	
10	25 Mar – 29 Mar	Unit 4	Thursday 28 March — Cross country / Fun run: Prep – Year 12Friday 29 March — Good FridayLesson 1 Binomial distributions – mean and varianceLesson 2 Modelling binomial distributionsLesson 3 Catch-up/Tutorial	

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Term 1

Term 2

Year 12 Mathematical Methods 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.				
Supervised assessment Students are to be supervised by the student's official example visor. Non-supervised assessment Students must sign declaration of academic integrity.					
Week	Dates	Unit	Торіс	Class work / Assessment to be submitted	
1	15 Apr – 19 Apr		Topic 1 Further differentiation and applications 3Lesson 1 Concept of the second derivative and accelerationLesson 2 Concavity, points of inflectionLesson 3 Sketching functions, concavity and points of inflection	Refer to Learning Guides	
2	22 Apr – 26 Apr		Thursday 25 April — Anzac Day Lesson 1 Sketching functions, concavity and points of inflection Lesson 2 Optimisation — function given Lesson 3 Catch-up/Tutorial		
3	29 Apr – 3 May		Lessons 1 – 2 Optimisation — function not given Topic 4 Continuous random variables and the normal distribution Lesson 3 Probability estimates and the probability density function		
4	6 May – 10 May		Monday 6 May — Labour Day Lesson 1 Hybrid probability density functions Lesson 2 Cumulative distribution functions Lesson 3 Catch-up/Tutorial		
5	13 May – 17 May	Unit 4	Lesson 1 E(X) of a continuous random variable, review limits and integration by recognition Lesson 2 Var(X) and SD(X) of a continuous random variable Lesson 3 Normal random variables, pdf with mean and std deviation		
6	20 May – 24 May		Lesson 1 Standardised normal variables, z scores, pdf with mean and std deviation Lessons 2 – 3 Normal probabilities, quantiles, modelling		
7	27 May – 31 May		Topic 2 Trigonometric functions 2 Lesson 1 SOHCAHTOA, unit circle, periodicity Lessons 2 – 3 Review solving trigonometric functions		
8	3 Jun – 7 Jun		Lesson 1 Sine rule for non-right-angled triangles Lesson 2 Sine rule — the ambiguous case Lesson 3 Cosine rule for non-right-angled triangles		
9	10 Jun – 14 Jun		Lesson 1 Area rule for non-right-angled triangle, bearings Lessons 2 – 3 Modelling in 2 and 3 dimensional contexts		
10	17 Jun – 21 Jun		Thursday 20 June — Senior formal: Year 12 Friday 21 June — Athletics carnival / Sports day: Prep – Year 12 Topic 5 Interval estimates for proportions Lesson 1 Random samples, bias Lesson 2 Variability, sample proportion, mean and standard deviation Lesson 3 Catch-up/Tutorial		

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Term 3

Year 12 Mathematical Methods Work rate calendar (WRC) 2024

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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	8 Jul – 12 Jul		Topic 5 Interval estimates for proportions Lesson 1 Approximate normality of sample proportion, random sampling, interval estimates Lessons 2 – 3 Margin of error, confidence intervals, simulations		
2	15 Jul – 19 Jul	Unit 4	Revision Lessons 1 – 3 Revision		
3	22 Jul – 26 Jul		Lessons 1 – 3 Revision		
4	29 Jul – 2 Aug		Revision and Exam Lessons 1 – 3 Revision	IA3 ExamTo be received atBrisbaneSDE by 5 pmFriday 2 August	
5	5 Aug – 9 Aug		Revision Lessons 1 – 3 Revision		
6	12 Aug – 16 Aug	-	Wednesday 14 August — Royal Queensland (Ekka) Show Holiday Lessons 1 – 3 Revision		
7	19 Aug – 23 Aug		Lessons 1 – 3 Revision		
8	26 Aug – 30 Aug	Units 3 & 4	Mock exams: Year 12 Monday 26 August – Thursday 29 August Friday 30 August — Student free day		
9	2 Sept – 6 Sept		Mock exams: Year 12 Monday 2 September – Friday 6 September		
10	9 Sept – 13 Sept		Friday 13 September — Connect excursion: Years 10–12 Revision Lessons 1 – 3 Revision		

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Term 4

Year 12 Mathematical Methods 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	Dates	Unit	Торіс	Class work / Assessment to be submitted	
1	30 Sept – 4 Oct	Units 3 & 4	Revision Lessons 1 – 3 Revision		
2	7 Oct – 11 Oct		Monday 7 October — King's Birthday Holiday Lessons 1 – 3 Revision		
3	14 Oct – 18 Oct		Lessons 1 – 3 Revision		
4	21 Oct – 25 Oct		Exams: Year 12 Monday 21 October – Friday 25 October		
5	28 Oct – 1 Nov		Exams: Year 12 Monday 28 October – Friday 1 November		
6	4 Nov – 8 Nov		Exams: Year 12 Monday 4 November – Friday 8 November		
7	11 Nov – 15 Nov		Exams: Year 12 Monday 11 November – Wednesday 13 November Thursday 14 November — Graduation: Year 12 Friday 15 November — Final day: Year 12		
8	18 Nov – 22 Nov				
9	25 Nov – 29 Nov				
10	2 Dec – 6 Dec				
11	9 Dec – 13 Dec				

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