

# 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

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.

Non-su	Non-supervised assessment Students must sign declaration of academic integrity.					
Week	Dates	Unit	Topic	Class work / Assessment to be submitted		
1	22 Jan –		Monday 22 January — Welcome calls for students: Prep – Year 12	Lesson materials provided		
	26 Jan		Wednesday 24 January — Learning for success: Prep – Year 12			
			Friday 26 January — Australia Day Holiday			
			Revision of Unit 3 from Term 4 2023			
2	29 Jan –		Topic 2: Time Series Analysis (Chapter 3)	Exercises as per Unit 3 outline		
	2 Feb		Lesson 1 Use a residual plot to assess the appropriateness of fitting a linear model	Quizzes 2B, 3D		
			Lesson 2 Calculate seasonal indices			
			Lesson 3 Deseasonalise time series data			
3	5 Feb –		Friday 9 February — Senior orientation day: Years 10–12	Exercises as per Unit 3 outline		
	9 Feb		Lesson 1 Fit a least-squares line to time series data	Quiz 3E		
			Lesson 2 Solve practical problems			
4	12 Feb –		Topic 3: Growth and decay in sequences (Chapter 4)	Exercises as per Unit 3 outline		
4	16 Feb		Lesson 1 Recursion and terms of an arithmetic sequence	Quizzes 4A, 4B, 4C, 4D		
			Lesson 2 Use the rule for the $n^{th}$ term, $t_n = a + (n-1)d$			
			Lesson 3 Model and analyse practical situations			
			, ' '			
5	19 Feb – 23 Feb		Lesson 1 Recursion and terms of a geometric sequence	Exercises as per Unit 3 outline		
	23 160	t 3	Lesson 2 Use the rule for the $n^{th}$ term, $t_n = ar^{(n-1)}$	Quizzes 4E, 4F, 4G		
		Unit 3	Lesson 3 Model and analyse practical situations			
6	26 Feb –		Topic 4: Earth Geometry and time zones (Chapter 5)	Exercises as per Unit 3 outline		
	1 Mar	<i>l</i> lar	Lesson 1 Angle measurement and arc length	Quizzes 5A, 5B		
			Lesson 2 Distance along a meridian			
			Lesson 3 Distance along a parallel of latitude			
7	4 Mar –		Lesson 1 GMT, IDL and UTC. Link between longitude and time	Exercises as per Unit 3 outline		
	8 Mar	8 Mar		Lesson 2 Time zones, time differences and related travel East and West	Quizzes 5C	
				Lesson 3 Aboriginal language groups and Indigenous seasonal time		
8	11 Mar –		Revision for IA2	Chapter 6 Revision of Unit 3		
8	15 Mar		Lesson 1-3 Revision	Chapters 1 to 5		
9	18 Mar – 22 Mar		Revision and completion of IA2 Exam	IA2 Exam		
			IA2 covers Unit 3 Topics 1, 2, 3 and 4.	To be received at		
			·	BrisbaneSDE by 5pm		
				Friday 22 March		
10	25 Mar – 29 Mar		Thursday 28 March — Cross country / Fun run: Prep – Year 12	Exercises as per Unit 4 outline		
			Friday 29 March — Good Friday	Quizzes 7A, 7B, 7C, 7E		
			Unit 4 Topic 1: Loans, investments, and annuities (Chapters 7, 8, & 9)			
			Lesson 1 Recurrence relation to model compound interest loan or investment			
			Lesson 2 Solve problems on compound interest loans or investments			



# Work rate calendar (WRC) 2024

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 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	Торіс	Class work / Assessment to be submitted
1	15 Apr – 19 Apr		Unit 4 Topic 1: Loans, investments, and annuities (Chapters 7, 8, & 9) Lesson 1 Effective interest rate Lesson 2 Recurrence relation to model a reducing balance loan Lesson 3 Reducing balance loan using annuities formulae	Exercises as per Unit 4 outline Quizzes 7D, 8A, 8B
2	22 Apr – 26 Apr		Thursday 25 April — Anzac Day Lesson 1 Recurrence relation to model an annuity Lesson 2 Repayment schedules to model an annuity	Exercises as per Unit 4 outline Quizzes 9A, 9B
3	29 Apr – 3 May		Lesson 1 Solve problems involving annuities formulae Lesson 2 Solve problems involving annuities formulae Lesson 3 Perpetuities	Exercises as per Unit 4 outline Quiz 9D
4	6 May – 10 May		Monday 6 May — Labour Day  Lesson 1 Consolidate Finance – Which formula do I use?  Lesson 2 Consolidate Finance – Which formula do I use?	Exercises as per Unit 4 outline
5	13 May – 17 May	Unit 4	Topic 2: Graphs and networks (Chapter 10) Lesson 1 Definitions of terms related to graphs and networks Lesson 2 Adjacency matrix. Communications and connections Lesson 3 Apply Euler's formula: $v + f - e = 2$	Exercises as per Unit 4 outline Quizzes 10A, 10B, 10C
6	20 May – 24 May	ā	Lesson 1 The language of exploring graphs Lesson 2 The language of exploring graph Lesson 3 Definition of terms related to Eulerian graphs	Exercises as per Unit 4 outline Quizzes 10D, 10E
7	27 May – 31 May		Lesson 1 Hamiltonian and semi-Hamiltonian graphs Lesson 2 Consolidate Explorer graphs and applications Lesson 3 Shortest path in a weighted graph	Exercises as per Unit 4 outline Quizzes 10F, 10G
8	3 Jun – 7 Jun		Topic 3: Networks and decision mathematics (Chapters 11 and 12) Lesson 1 Definition of terms related to trees and spanning trees Lesson 2 Minimum spanning trees in a weighted graph Lesson 3 Solve minimal connector problems	Exercises as per Unit 4 outline Quizzes 11A
9	10 Jun – 14 Jun		Lesson 1 Precedence tables and activity networks Lesson 2 Critical paths using ESTs and LSTs Lesson 3 Minimum completion time and Float times	Exercises as per Unit 4 outline Quizzes 12A, 12B, 12C
10	17 Jun – 21 Jun		Thursday 20 June — Senior formal: Year 12 Friday 21 June — Athletics carnival / Sports day: Prep – Year 12 Lesson 1 Consolidate Term 2 – All topics - mixed	Exercises as per Unit 4 outline



# Work rate calendar (WRC) 2024

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.

	Non-supervised assessment Students must sign declaration of adademic integrity.				
Week	Dates	Unit	Topic	Class work / Assessment to be submitted	
1	8 Jul –		Topic 3: Networks and decision mathematics (Chapters 11 and 12)	Exercises as per Unit 4 outline	
	12 Jul		Lesson 1 Maximum-flow minimum cut problems	Quizzes 11C	
			Lesson 2 Maximum-flow minimum cut problems		
		Unit 4	Lesson 3 Bipartite graph to represent assignment/allocation problems		
2	15 Jul – 19 Jul		Lesson 1 – 3 Hungarian algorithm to determine optimum assignments	Exercises as per Unit 4 outline Quizzes 11B	
3	22 Jul –	ō	Revision for IA3		
	26 Jul				
4	29 Jul –		Revision and completion of IA3 Exam	IA3 Exam	
	2 Aug		IA3 Exam covers Unit 4 Topics 1, 2 and 3	To be received at BrisbaneSDE by 5pm Friday 2 August	
5	5 Aug –		Structured Revision Program	As per revision program	
	9 Aug		Lessons 1 – 3		
6	12 Aug –		Wednesday 14 August —Royal Queensland (Ekka) Show Holiday	As per revision program	
	16 Aug		Lessons 1 – 3		
7	19 Aug –		Lessons 1 – 3	As per revision program	
	23 Aug	4 Revision			
8	26 Aug –	\evi	Mock exams: Year 12	As per revision program	
	30 Aug	4	Monday 26 August – Thursday 29 August		
		Units 3 &	Friday 30 August — Student free day		
	0.0	Unit	Mark was Very 10	As nor raviaion program	
9	2 Sept – 6 Sept		Mock exams: Year 12  Monday 2 September – Friday 6 September	As per revision program	
			Monday 2 deptember – Friday o deptember		
10	9 Sept –		Friday 13 September — Connect excursion: Years 10–12	As per revision program	
	13 Sept		Structured Revision Program continues		
			Lessons 1 – 3		



# Work rate calendar (WRC) 2024

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.

Wook	Datas	Linit	Tonio	Class work / Assessment
week	Dates	Unit	Topic	Class work / Assessment to be submitted
1	30 Sept -		Structured Revision Program continues	As per revision program
	4 Oct		Lessons 1 – 3	
2	7 Oct –		Monday 7 October — King's Birthday Holiday	As per revision program
	11 Oct		Lessons 1 – 3	
3	14 Oct – 18 Oct		Lessons 1 – 3	As per revision program
	10 OCI			
4	21 Oct -		Exams: Year 12	
	25 Oct		Monday 21 October – Friday 25 October	
5	28 Oct –		Exams: Year 12	
	1 Nov		Monday 28 October – Friday 1 November	
		4		
6	4 Nov –	3 and 4	Exams: Year 12	
	8 Nov		Monday 4 November – Friday 8 November	
		Units 1, 2,		
7	11 Nov –	its	Exams: Year 12	
	15 Nov	P	Monday 11 November – Wednesday 13 November	
			Thursday 14 November — Graduation: Year 12	
			Friday 15 November — Final day: Year 12	
8	18 Nov – 22 Nov			
	ZZ INOV			
9	25 Nov –			
	29 Nov			
10	2 Dec –			
	6 Dec			
11	9 Dec –			
	13 Dec			