Varsity College
Year 12 General Mathematics 2024

Term 1

Week	Date	Topics	Assessment
1	**22-26 January** **O-Week** **Australia Day PH Fri**	• O Week	
2	**29 Jan-2 Feb**	**Unit 3 Topic 3: Growth and decay in sequences** The arithmetic sequence: • Sequences and simple recursion **Ch.4A** • Defining an arithmetic recursion **Ch.4B** • Rule for finding the nth term **Ch.4C**	
3	**5-9 February** **Swimming Carnival - Thurs**	• Applications of arithmetic sequences **Ch.4D** • Geometric sequences **Ch.4E**	
4	**12-16 February**	• Rule for finding the nth term **Ch.4F** • Applications of geometric sequences **Ch.4G**	
5	**19-23 February**	**Unit 3 Topic 4: Earth geometry and time zones** Locations on the earth: • Angle measurement and arc length **Ch.5A**	
6	**26 Feb-1 Mar** **GC24 - Wednesday**	• Latitude and longitude **Ch.5B**	
7	**4-8 March**	Time Zones: • Time Zones and differences **Ch.5C** **END of UNIT 3**	
8	**11-15 March**	**Unit 3 Revision:** (Recall Unit 3 Topic 1 and 2 – content from Term 4 Year 11) • Chapter 6A – Bivariate Data Analysis and Chapter 1 and 2 Review • Chapter 6B – Time Series Analysis and Chapter 3 Review	
9	**18-22 March** **GC24 - Thursday**	**Unit 3 Revision:** • Chapter 6C – Growth and Decay in sequences and Chapter 4 Review • Chapter 6D – Earth Geometry and time zones and Chapter 5 Review • Revision Practice and Final Consolidation	
10	**25-29 March** **Good Friday PH**	**EXAM BLOCK**	**Unit 3 Exam (IA2)**
		School holidays: Friday March 29 - Sunday April 14	

Term 2

Week	Date	Topics	Assessment
1	**15-19 April** Cross Country – Wed	**Unit 4 Topic 2: Graphs and Networks** Graphs, associated technology and the adjacency matrix: • Graphs and associated terminology **Ch.10A** • The Adjacency Matrix **Ch.10B**	
2	**22-26 April** GC24 - Tuesday Anzac Day PH - Thurs	Planar graphs, paths and cycles: • Planar graphs and Euler's formula **Ch.10C**	
3	**29 Apr-3 May**	• Exploring the graph **Ch.10D** • Eulerian graphs and applications **Ch.10E**	
4	**6-10 May** Labour Day PH - Mon	• Hamiltonian graphs and applications **Ch.10F** • Weighted graphs, networks and shortest path problems **Ch.10G**	
5	**13-17 May**	**Unit 4 Topic 3: Networks and decision mathematics** Tree and minimum connector problems: • Trees and connector problems **Ch.11A** • Flow Networks **Ch.11C**	
6	**20-24 May**	Assigning order and the Hungarian algorithm: • Assignment problems and the Hungarian algorithm **Ch.11B**	
7	**27-31 May**	Project planning and scheduling using Critical Path Analysis (CPA): • Project Planning – precedence, tables and activity networks **Ch12A**	
8	**3-7 June**	• Scheduling problems **Ch.12B** • Applications of CPA **Ch.12C**	
9	**10-14 June** GC24 - Wednesday	**Unit 4 Topic 1: Loans, investments and annuities** Compound interest loans and investments: • Modelling compound interest **ONLY Ch.7B (Midway down chapter)** • Investigate compound interest rates and investments **Ch.7C**	
10	**17-21 June** Athletics Carnival - Thurs	• Effective annual rate of interest **Ch.7D** • Solve compound interest problems **Ch.7E**	
School holidays: Saturday June 22 - Sunday July 7			

Term 3

Week	Date	Topics	Assessment
1	**8-12 July**	Reducing-balance loans: • A recursive model for reducing-balance loans **Ch.8A** • Investigating reducing-balance loans **Ch.8B**	
2	**15-19 July**	**Unit 4 Revision:** • Chapter 13A – Loans, investments and annuities and Chapter 7 and 8 Reviews • Chapter 13B – Graphs and Networks and Chapter 10 Review	
3	**22-26 July** **GC24 - Thursday**	**Unit 4 Revision:** • Chapter 13C – Networks and decision mathematics and Chapter 11 and 12 Reviews • Revision Practice and Final Consolidation	
4	**29 Jul- 2 Aug**	**EXAM MINI SHUTDOWN**	**Unit 4 Exam (IA3) Wednesday pm**
5	**5-9 August**	**Unit 4 Topic 1: Loans, investments and annuities** Annuities and perpetuities (compound interest investments with periodic payments made from the investment): • Solving reducing-balance loan problems **Ch.8C** • Recursive model for annuities **Ch.9A** • Investigating annuities **Ch.9B**	
6	**12-16 August** **GC24 Finals – Wed.**	• Solving problems involving annuities and technology **Ch.9C** • Perpetuities **Ch.9D**	
7	**19-23 August**	**Start Revision for External Exams and Mock** • Revision for EA and Mock Exam	
8	**26-30 August**	• Revision for EA and Mock Exam	
9	**2-6 September**	**MOCK EXAMS**	
10	**9-13 September**	**MOCK EXAMS**	
	School holidays: Saturday September 14 – Sunday September 29		

Term 4

Week	Date	Topics	Assessment
1	**30 Sept – 4 Oct**	• REVISION UNIT 3 & 4	
2	**7-11 October** **King's B'day PH - Monday**	• REVISION UNIT 3 & 4	
3	**14-18 October**	• No classes for Applied and Certificate subjects. • Study lessons for General subjects.	
4	**21 - 25 October**	**EXTERNAL EXAMS**	**External Assessment: Unit 3 and 4**
5	**28 Oct – 1 Nov**		
6	**4-8 November**		
7	**11-15 November**	**Final Week Events**	