Varsity College
Year 12 General Mathematics

Term 1, 2023

Week	Date	Topics	Assessment
1	23-27 January **Australia Day PH - Thurs**	**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**	
2	30 Jan – 3 Feb **Swimming Carnival - Mon**	• Applications of arithmetic sequences **Ch.4D** • Geometric sequences **Ch.4E**	
3	6-10 February	• Rule for finding the nth term **Ch.4F** • Applications of geometric sequences **Ch.4G**	
4	13-17 February	**Unit 3 Topic 4: Earth geometry and time zones** Locations on the earth: • Angle measurement and arc length **Ch.5A**	
5	20-24 February	• Latitude and longitude **Ch.5B**	
6	27 Feb – 3 Mar	Time Zones: • Time Zones and differences **Ch.5C**	
7	6-10 March **GIPSA - Wednesday**	Recall Unit 3 Topic 1 and 2 – content from Term 4 Year 11 **END of UNIT 3**	
8	13-17 March	**Unit 3 Revision:** • Chapter 6A – Bivariate Data Analysis and Chapter 1 and 2 Review • Chapter 6B – Time Series Analysis and Chapter 3 Review	
9	20-24 March	**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	
10	27-31 March **Cross Country - Thurs**	**Exam Block**	**Unit 3 Exam (IA2)**
		School Holidays: Saturday April 1 – Sunday April 16	

Term 2, 2023

Week	Date	Topics	Assessment
1	17-21 April **Athletics Carnival - Wednesday**	**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	24-28 April **ANZAC Day PH - Tues**	Planar graphs, paths and cycles: • Planar graphs and Euler's formula **Ch.10C**	
3	1-5 May **Labour Day PH - Monday GIPSA - Wednesday**	• Exploring the graph **Ch.10D** • Eulerian graphs and applications **Ch.10E**	
4	8-12 May	• Hamiltonian graphs and applications **Ch.10F** • Weighted graphs, networks and shortest path problems **Ch.10G**	
5	15-19 May **GIPSA - Wednesday**	**Unit 4 Topic 3: Networks and decision mathematics** Tree and minimum connector problems: • Trees and connector problems **Ch.11A** • Flow Networks **Ch.11C**	
6	22-26 May **GIPSA - Wednesday**	Assigning order and the Hungarian algorithm: • Assignment problems and the Hungarian algorithm **Ch.11B**	
7	29 May – 2 June	Project planning and scheduling using Critical Path Analysis (CPA): • Project Planning – precedence, tables and activity networks **Ch12A**	
8	5-9 June **Exam Block – Tuesday L1, 2 GIPSA - Wednesday**	• Scheduling problems **Ch.12B** • Applications of CPA **Ch.12C**	
9	12-16 June	**Unit 4 Topic 1: Loans, investments and annuities** Compound interest loans and investments: • Modelling compound interest ONLY **Ch.7B** • Investigate compound interest rates and investments **Ch.7C**	
10	19-23 June	• Effective annual rate of interest **Ch.7D** • Solve compound interest problems **Ch.7E**	
School Holidays: Saturday June 24 – Sunday July 9			

Term 3, 2023

Week	Date	Topics	Assessment
1	10-14 July	Reducing-balance loans: • A recursive model for reducing-balance loans **Ch.8A** • Investigating reducing-balance loans **Ch.8B**	
2	17-21 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	24-28 July	Unit 4 Revision: • Chapter 13C – Networks and decision mathematics and Chapter 11 and 12 Reviews	
4	31 July – 4 August **Exam Block - Thursday**	**EXAM MINI SHUTDOWN**	**Unit 4 Exam (IA3) Thursday pm**
5	7-11 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	14-18 August	• Solving problems involving annuities and technology **Ch.9C** • Perpetuities **Ch.9D** **End of Unit 4**	
7	21-25 August	**Start Revision for External Exams and Mock** • Revision for EA and Mock Exam	
8	28 August – 1 Sept.	• Revision for EA and Mock Exam	
9	4-8 September	**Mock Exams**	
10	11-15 September	**Mock Exams**	
School Holidays: Saturday September 16 – Monday October 2			

Term 4, 2023

Week	Date	Topics	Assessment
1	2-6 October **Queen's Birthday PH - Mon**	• **REVISION UNIT 3 & 4**	
2	9-13 October	• **REVISION UNIT 3 & 4**	
3	16-20 October	• No classes for Applied and Certificate subjects. • Study lessons for General subjects.	
4	23-27 October	**External Exam Block**	**External Assessment: Unit 3 and 4**
5	30 Oct – 3 Nov		
6	6-10 November		
7	13-17 November	**Graduation**	