Varsity College
Year 12 General Mathematics 2025

Term 1

Week	Date	Topics	Assessment
1	**27-31 January** **O-Week** **Australia Day: Monday**	O Week	
2	**3-7 February**	**Unit 3 Topic 3: Growth and decay in sequences** The arithmetic sequence: • Sequences and simple recursion • Defining an arithmetic recursion • Rule for finding the nth term	
3	**10-14 February** **Swimming Carnival: Tuesday**	• Applications of arithmetic sequences • Geometric sequences	
4	**17-21 February**	• Rule for finding the nth term • Applications of geometric sequences	
5	**24-28 February**	**Unit 3 Topic 4: Earth geometry and time zones** Locations on the earth: • Angle measurement and arc length	
6	**3-7 March** **GC25: Wednesday**	• Latitude and longitude	
7	**10-14 March**	Time Zones: • Time Zones and differences **END of UNIT 3**	
8	**17-21 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	**24-28 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 • Revision Practice and Final Consolidation	
10	**31 March - 4 April**	**EXAM BLOCK**	**Unit 3 Exam (IA2)**
School holidays: Friday April 4 - Sunday April 19			

Term 2

Week	Date	Topics	Assessment
1	**21-25 April** **Easter Monday** **ANZAC Day: Friday**	**Unit 4 Topic 2: Graphs and Networks** Graphs, associated technology and the adjacency matrix: • Graphs and associated terminology • The Adjacency Matrix	
2	**28 April-2 May** **GC25: Tuesday**	Planar graphs, paths and cycles: • Planar graphs and Euler's formula	
3	**5-9 May** **Labour Day: Monday**	• Exploring the graph • Eulerian graphs and applications	
4	**12-16 May**	• Hamiltonian graphs and applications • Weighted graphs, networks and shortest path problems	
5	**19-23 May**	**Unit 4 Topic 3: Networks and decision mathematics** Tree and minimum connector problems: • Trees and connector problems • Flow Networks	
6	**26-30 May**	Assigning order and the Hungarian algorithm: • Assignment problems and the Hungarian algorithm	
7	**2-6 June** **GC25: Wednesday**	Project planning and scheduling using Critical Path Analysis (CPA): • Project Planning – precedence, tables and activity networks	
8	**9-13 June** **GC25: Wednesday**	• Scheduling problems • Applications of CPA	
9	**16-20 June**	**Unit 4 Topic 1: Loans, investments and annuities** Compound interest loans and investments: • Modelling compound interest • Investigate compound interest rates and investments	
10	**23-27 June**	• Effective annual rate of interest • Solve compound interest problems	
School holidays: Saturday June 28 - Sunday July 13			

Term 3

Week	Date	Topics	Assessment
1	14-18 July	Reducing-balance loans: • A recursive model for reducing-balance loans • Investigating reducing-balance loans	
2	21-25 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	28 July-1 August	**Unit 4 Revision:** • Chapter 13C – Networks and decision mathematics and Chapter 11 and 12 Reviews • Revision Practice and Final Consolidation	
4	4-8 August	**EXAM MINI SHUTDOWN**	**Unit 4 Exam (IA3) Wednesday pm**
5	11-15 August GC25: Tuesday	**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 • Recursive model for annuities • Investigating annuities	
6	18-22 August GC25: Tuesday	• Solving problems involving annuities and technology • Perpetuities	
7	25-29 August GC Show Day: Friday	**Start Revision for External Exams and Mock** • Revision for EA and Mock Exam	
8	1-5 September	• Revision for EA and Mock Exam	
9	8-12 September	**MOCK EXAMS**	
10	15-19 September	**MOCK EXAMS**	
School holidays: Saturday September 20 – Sunday October 4			

Term 4

Week	Date	Topics	Assessment
1	**6-10 October** King's Birthday: Monday	• REVISION UNIT 3 & 4	
2	**13-17 October**	• REVISION UNIT 3 & 4	
3	**20-24 October**	• No classes for Applied and Certificate subjects. • Study lessons for General subjects.	
4	**27-31 October**	**EXTERNAL EXAMS**	**External Assessment: Unit 3 and 4**
5	**3-7 November**		
6	**10-14 November**		
7	**17-21 November**	**Final Week Events**	