Varsity College
Year 11 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 1 Topic 3: Linear equations and their graphs** Linear equations: Review Algebra (Year 10 Term 3 Ch.4A – 4H) P.219 Chapter Review Questions (Homework) Straight-line graphs and their applications: • Application of straight-line graphs **Ch.4I** • Solving simultaneous equations – algebraically **Ch.4J**	
3	**5-9 February** Swimming Carnival - Thurs	• Solving simultaneous equations – using technology **Ch.4K** • Problem Solving with Simultaneous Equations **Ch.4L** Piece-wise linear graphs and step graphs: • Sketch and interpret piece-wise and step graphs **Ch.4N**	
4	**12-16 February**	**Unit 1 Topic 2: Shape and Measurement** Mensuration: • Review Perimeter, Area and Volume (Y10 Term 4 **Ch.3A – 3G**) Page 153 Chapter Review Questions	
5	**19-23 February**	Similar figures and scale factors: • Review Similarity and Scaling (Y10 Term 4 Ch.**3H – 3J**) Page 153 Chapter Review Questions	
6	**26 Feb-1 Mar** GC24 - Wednesday	**Unit 1 Topic 1: Consumer arithmetic** Applications of rates, percentages and use of spreadsheets: • Salaries and wages **Ch.1A** • Overtime, penalty rates and royalties C**h.1B** • commission and piecework **Ch.1C**	
7	**4-8 March**	• Calculate government allowances **Ch.1D** • Unit cost method **Ch.1E**	
8	**11-15 March**	• Currency and exchange rates **Ch.1F** • Percentages and Applications **Ch.2A**	
9	**18-22 March** GC24 - Thursday	**Unit 1 Revision** • **Chapter 5A** – Consumer Arithmetic (Personal) Including Problem Solving – **1H** and Chapter Review • **Chapter 5B** – Consumer Arithmetic (Loans) Including Problem Solving – **2G** and Chapter Review • **Chapter 5C** – Shape and Measurement Including Problem Solving – **3K** and Chapter Review • **Chapter** 5D – Linear Equations and their graphs\ Including Problem Solving – **4M** and Chapter Review	
10	**25-29 March** Good Friday PH	**Exam Block**	**UNIT 1 EXAM**
School holidays: Friday March 29 - Sunday April 14			

Term 2

Week	Date	Topics	Assessment
1	**15-19 April** Cross Country – Wed	• Simple Interest **Ch.2B** • Simple Interest (rearranging formula) **Ch.2C** •	
2	**22-26 April** GC24 - Tuesday Anzac Day PH - Thurs	• Compound Interest **Ch.2D** • PSMT Handout/Check point	PSMT Hand Out L2
3	**29 Apr-3 May**	• Problem Solving **Ch.2G** • PSMT Check point	PSMT Draft L2
4	**6-10 May** Labour Day PH - Mon	• Prepare a budget **Ch.1G** • PSMT Check point • Inflation **Ch.2E**	
5	**13-17 May**	**Unit 2 Topic 1: Applications of trigonometry** Applications of trigonometry: • Review of basic trigonometry **Ch.6A** • Finding the unknown side **Ch.6B** • Finding an angle **Ch.6C**	**PSMT Due** **L1**
6	**20-24 May**	• Angles of elevation and depression **Ch.6E** • Bearings and navigation **Ch.6F**	
7	**27-31 May**	• Area of triangle (Heron's Rule) **Ch.6G** • The Sine Rule **Ch.6H**	
8	**3-7 June**	• The Cosine Rule **Ch.6I**	
9	**10-14 June** GC24 – Wednesday Exam shutdown - Fri	**Unit 2 Topic 3: Univariate data analysis** Making sense of data: • Review Data from Y10 Term 4 **(Ch.9A – 9C)** - Types of Data - Displaying and Describing Categorical Data - Interpreting Categorical Data Graphs	
10	**17-21 June** Athletics Carnival - Thurs	• Review Data from Y10 Term 4 **(Ch.9D – 9G)** **Page 429 Chapter Review Questions** - Displaying and Describing Numerical Data - Characteristics of Numerical data distribution - Interpreting Numerical Data Graphs - Summarising Data	
		School holidays: Saturday June 22 - Sunday July 7	

Term 3

Week	Date	Topics	Assessment
1	**8-12 July**	**Unit 2 Topic 3: Univariate data analysis** Comparing data for a numerical variable across two or more groups: • Construct and interpret boxplots **Ch.9H** • Compare data across 2 or more data groups **Ch.9I**	
2	**15-19 July**	**Unit 2 Topic 2: Algebra and matrices** Linear and non-linear relationships: • Substituting values (Linear and Non-Linear) **Ch.7A** • Transposition of equations Ch.7C	
3	**22-26 July** **GC24 - Thursday**	• Constructing a table of values (with 2 variables) **Ch.7B** (Practice using a spreadsheet)	
4	**29 Jul- 2 Aug**	Matrices and matrix arithmetic: • The Basics of a matrix **Ch.8A** • Using matrices in practical situations **Ch.8B** • Adding and subtracting matrices **Ch.8C** • Scalar multiplication **Ch.8D**	
5	**5-9 August**	• Matrix multiplication and power of a matrix **Ch.8E** • Problem-solving and modelling with matrices **Ch.8F**	
6	**12-16 August** **GC24 Finals – Wed.**	• Communications and connections **Ch.8G** • Further applications and problem-solving tasks **Ch.8H** **End of Unit 2**	
7	**19-23 August**	**PSMT review and preparation for Unit 3 PSMT**	
8	**26-30 August**	Unit 2 Revision: • **Chapter 10A** – Applications of Trigonometry Including Problem Solving – 6J and Chapter Review • **Chapter 10B** – Linear and non-linear relationships Including Chapter Review	
9	**2-6 September**	Unit 2 Revision: • **Chapter 10C** – Matrices and matrix arithmetic Including Problem Solving – 8H and Chapter Review • **Chapter 10D** – Univariate Data Analysis Including Problem Solving – 9J and Chapter Review	
10	**9-13 September**	**Exam**	**UNIT 2 EXAM**
		School holidays: Saturday September 14 – Sunday September 29	

Term 4

Week	Date	Topics	Assessment
1	**30 Sept – 4 Oct**	**Unit 3 Topic 1: Bivariate data analysis** Identifying and describing associations between two numerical variables: • Review types of data **Ch.1A** • Two way tables **Ch.1B (**1A and 1B – 1 lesson**)** • Displaying bivariate data - The scatterplot **Ch.1C**	
2	**7-11 October** **King's B'day PH - Monday**	• Interpreting a scatterplot **Ch.1D** • A measure of strength – the correlation coefficient **Ch.1E** • The coefficient of determination **Ch.1F**	
3	**14-18 October**	Fitting a linear model to numerical data: • Fitting a linear model **Ch.2A** • Least squares regression line **Ch.2B** **PSMT review and preparation for Unit 3 PSMT**	PSMT (IA1) hand out Lesson 2
4	**21 - 25 October**	• Association and Causation **Ch.2C**	Checkpoint 1
5	**28 Oct – 1 Nov**	**Unit 3 Topic 2: Time series analysis** Describing and interpreting patterns in time series data: • Time series data **Ch.3A** • Describe time series plots **Ch.3B**	Checkpoint 2
6	**4-8 November**	• Smoothing a time series using moving means **Ch.3C**	Checkpoint 3
7	**11-15 November**	• Seasonal Indices **Ch.3D** • Fitting a trend line and forecasting **Ch.3E** **Final Week Year 11**	**PSMT (IA1) due start Lesson 2**
8	**18-22 November**	**Exam Block**	
School holidays: Saturday November 23 – Monday January 27			