Varsity College
Year 11 General Mathematics

Term 1, 2023

Week	Date	Topics	Assessment
1	23-27 January **Australia Day PH - Thurs**	**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 (2 Lessons and Homework)	
2	30 Jan – 3 Feb **Swimming Carnival - Mon**	Straight-line graphs and their applications: • Application of straight-line graphs Ch.4I • Solving simultaneous equations – algebraically Ch.4J	
3	6-10 February	• 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	13-17 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	20-24 February	Similar figures and scale factors: • Review Similarity and Scaling (Y10 Term 4 Ch.**3H – 3J**) Page 153 Chapter Review Questions	
6	27 Feb – 3 Mar	**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	6-10 March **GIPSA - Wednesday**	• Calculate government allowances **Ch.1D** • Unit cost method **Ch.1E**	
8	13-17 March	• Currency and exchange rates **Ch.1F** • Percentages and Applications **Ch.2A**	

9	20-24 March	**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	27-31 March **Cross Country - Thurs**	**Exam Block**	**Unit 1 Exam**
School Holidays: Saturday April 1 – Sunday April 16			

Term 2, 2023

Week	Date	Topics	Assessment
1	17-21 April **Athletics Carnival - Wednesday**	• Simple Interest Ch.2B • Simple Interest (rearranging formula) **Ch.2C** •	
2	24-28 April **ANZAC Day PH - Tues**	• Compound Interest **Ch.2D** • PSMT Handout/Check point •	**PSMT hand out L2**
3	1-5 May **Labour Day PH - Monday** **GIPSA - Wednesday**	• Problem Solving **Ch.2G** • PSMT Check point	**PSMT Draft due L2**
4	8-12 May	• Prepare a budget **Ch.1G** • PSMT Check point • Inflation **Ch.2E**	
5	15-19 May **GIPSA - Wednesday**	**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	22-26 May **GIPSA - Wednesday**	• Angles of elevation and depression **Ch.6E** • Bearings and navigation **Ch.6F**	
7	29 May – 2 June	• Area of triangle (Heron's Rule) **Ch.6G** • The Sine Rule **Ch.6H**	
8	5-9 June **Exam Block – Tuesday L1,2** **GIPSA - Wednesday**	• The Cosine Rule **Ch.6I**	
9	12-16 June	**Unit 2 Topic 3: Univariate data analysis** Making sense of data: • Review Data from Y10 Term 4 **(Ch.9A – 9G)** **Page 429 Chapter Review Questions**	
10	19-23 June	**Exam Block**	
School Holidays: Saturday June 24 – Sunday July 9			

Term 3, 2023

Week	Date	Topics	Assessment
1	10-14 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	17-21 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	24-28 July	• Constructing a table of values (with 2 variables) **Ch.7B** (Practice using a spreadsheet)	
4	31 July – 4 August	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	7-11 August	• Matrix multiplication and power of a matrix **Ch.8E** • Problem-solving and modelling with matrices **Ch.8F**	
6	14-18 August	• Communications and connections **Ch.8G** • Further applications and problem-solving tasks **Ch.8H** **End of Unit 2**	
7	21-25 August	**PSMT review and preparation for Unit 3 PSMT**	
8	28 August – 1 Sept.	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	4-8 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	11-15 September	**Exam**	**Unit 2 exam**
School Holidays: Saturday September 16 – Monday October 2			

Term 4, 2023

Week	Date	Topics	Assessment
1	2-6 October **Queen's Birthday PH - Mon**	**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	9-13 October	• Interpreting a scatterplot **Ch.1D** • A measure of strength – the correlation coefficient **Ch.1E** • The coefficient of determination **Ch.1F**	
3	16-20 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	23-27 October	• Association and Causation **Ch.2C**	**Checkpoint 1**
5	30 Oct – 3 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	6-10 November	• Smoothing a time series using moving means **Ch.3C**	**Checkpoint 3**
7	13-17 November	• Seasonal Indices **Ch.3D** • Fitting a trend line and forecasting **Ch.3E** **Final Week Year 11**	**PSMT (IA1) due start of Lesson 2**
8	20-24 November	**Exam Block**	
School Holidays: Saturday November 25 – Sunday January 21, 2024			