



Varsity College Year 10 – Specialist Mathematics – Semester 2 – 2023

Week	Date	Topics	Assessment	
1	10-14 July Athletics Carnival - Wed	Number classification and set notation		
	Athletics Garnival - Wea	Rational and irrational numbers		
2	17-21 July	Methods of proof		
		Proof by contradiction		
3	24-28 July	 Operations with surds: multiplication and division using 		
		conjugates		
4	31 July – 4 August	 Properties and notation of vectors 		
		 Cartesian and polar form 		
5	7-11 August	Triangles rules with vectors		
6	14-18 August	Using vectors in geometric proof		
7	21-25 August	Revision and Exam	Exam L3	
8	28 August – 1 Sept.	Geometry review: basic properties, congruency and angle		
	GC Show PH - Fri	facts		
9	4-8 September	Chord Theorems		
10	11-15 September	Decomposition of Algebraic Fractions		
School Holidays: Saturday September 16 – Monday October 2				

Term 3, 2023

Term 4, 2023

Week	Date	Topics	Assessment	
1	2-6 October King's Birthday PH - Mon	 Introduction to complex numbers, defining <i>i</i> Complex solutions of quadratics 		
2	9-13 October	 Operations with complex numbers (+, -, × by scalar and ×) Complex conjugates and division of complex numbers Complex numbers in polar form 		
3	16-20 October	 Introduction to matrices – matrix definition and notation Operations with matrices (+, -, × by scalar) 		
4	23-27 October	 Operations with matrices (×) Understanding the multiplicative identity and inverse Solving matrix equations (basic 2x2 without technology) 		
5	30 Oct – 3 Nov	 Solving matrix equations (complex and higher order matrices with technology) 		
6	6-10 November	 Using transformations with matrices – shapes and basic functions Concepts of translation and linear dilation 		
7	13-17 November	Revision		
8	20-24 November	Exam Block	Exam	
School Holidays: Saturday November 25 – Sunday January 21, 2024				