

## Varsity College Year 10 General Mathematics – Semester 2, 2024

Week	Date	Topics	Assessment
1	8-12 July Athletics Carnival Wed.	<ul style="list-style-type: none"> <li>Interpret data and construct scatter plots</li> <li>Construct a line of best fit and use to make predictions</li> </ul>	
2	15-19 July	<ul style="list-style-type: none"> <li>Use scatterplots to investigate bivariate data, lines of best fit and interpolation/ extrapolation of information</li> </ul>	
3	22-26 July GC24 - Thursday	<ul style="list-style-type: none"> <li>Sketch lines of the form <math>y = mx + c</math> (<math>y = a + bx</math>) using a table and without</li> <li>Recap finding gradients and points of intercept from both equation and plot</li> </ul>	
4	29 Jul- 2 Aug	<ul style="list-style-type: none"> <li>Review forming an equation from a graph</li> </ul>	
5	5-9 August	<ul style="list-style-type: none"> <li>Statistics / Algebra investigation</li> </ul>	
6	12-16 August GC24 Finals – Wed.	<ul style="list-style-type: none"> <li>Statistics / Algebra investigation</li> </ul>	
7	19-23 August	<ul style="list-style-type: none"> <li>Calculate 5 number summary</li> <li>(Recall and apply measures of spread - median and IQR)</li> <li>Use 5 number summary to transfer to box and whisker plots</li> </ul>	
8	26-30 August Gold Coast Show PH - Fri	<ul style="list-style-type: none"> <li>Compare box and whisker plots in terms of distribution</li> </ul>	
9	2-6 September	<ul style="list-style-type: none"> <li>Directed Term Revision</li> </ul>	
10	9-13 September	<ul style="list-style-type: none"> <li>Exam</li> </ul>	<b>Exam Lesson 1</b>
<b>School holidays: Saturday September 14 – Sunday September 29</b>			
1	30 Sept – 4 Oct	<ul style="list-style-type: none"> <li>Define univariate data</li> <li>Classify statistical variables as categorical or numerical</li> <li>Classify a categorical variable as ordinal or nominal and use tables and pie, bar &amp; column charts to organise &amp; display the data</li> <li>Classify a numerical variable as discrete or continuous</li> </ul>	
2	7-11 October King's B'day PH - Monday	<ul style="list-style-type: none"> <li>Select and justify an appropriate graphical display to describe the distribution of a numerical dataset, including dot plot, stem-and-leaf plot, column chart or histogram</li> </ul>	
3	14-18 October	<ul style="list-style-type: none"> <li>Compare stem-and-leaf plots to dot plots in terms of distribution</li> <li>Calculate the measures of average and spread in discrete and continuous scenarios (being aware of the significance of the size of the data set)</li> </ul>	
4	21 - 25 October	<ul style="list-style-type: none"> <li>Review Pythagoras Theorem and use it to solve problems</li> <li>Solve problems requiring calculations of perimeters and, areas of circles, sectors of circles, triangles, rectangles, trapeziums, parallelograms and composites</li> </ul>	
5	28 Oct – 1 Nov	<ul style="list-style-type: none"> <li>Obtain a scale factor and use it to solve scaling problems</li> <li>Recap work on volume and surface area and, extend to composite solids</li> </ul>	
6	4-8 November	<ul style="list-style-type: none"> <li>Calculate surface area, volumes and capacities of standard 3D objects including spheres, rectangular prisms, cylinders, cones, pyramids and composites</li> </ul>	
7	11-15 November	<ul style="list-style-type: none"> <li>Directed Semester Revision</li> </ul>	
8	18-22 November	<b>EXAM BLOCK</b>	<b>Semester Exam</b>
<b>School holidays: Saturday November 23 – Monday January 27</b>			