

	2	3	4	5	6	7	8	9	10	11
TERM 1	<p><b>Title/Unit: Data &amp; Chance</b>  <b>Outcomes &amp; Content Focus:</b> MA5.3-18SP + MA5.3-19SP + MA5.2-17SP   Single Variable Data Analysis + Bivariate Data Analysis + Probability</p> <p><b>Skills:</b> Communicating (MA5.3-1WM), problem solving (MA5.3-2WM), reasoning (MA3.5-3WM). Using standard deviation to analyse data. Investigating the relationships between numerical variables using lines of best fit. Exploring how data is used to inform decision making. Describing and calculating probabilities of multi step chance experiments.</p> <p><b>Preparation Skills for Stage 6:</b> This unit and the corresponding assessment task is aligned to the statistics investigation task completed in Year 11 maths courses. Students will learn to interpret, analyse and make inferences from a variety of data sets at a standard which will prepare them for Stage 6 studies. Data forms a major part of each of the maths courses in Stage 6 – this unit will be a foundation for the continuing study of this strand of mathematics in senior years. Students will be working on their assessment task for this unit outside of class time, which will strengthen their time management skills to complete assessment tasks independently.</p> <p><b>HPGE Focus:</b> Students in the 5.3 Pathway will be taught additional higher-level topics delivered only to the HPGE / enrichment class. These topics require additional mathematical skills and higher order thinking to master. The level of difficulty in the 5.3 topics is higher than that of the 5.2 Pathway. Throughout this unit students will be given opportunities to extend and deepen their knowledge of the multiple facets and uses of statistics in the classroom and beyond, catering to the high potential of students in the HPGE class. Assessment will have increased rigour, exposing students to the academic requirements of Stage 6 maths courses, and will include questions, SST and verbs used in Stage 6 tasks.</p>									
									Data Investigation 25 %	

	1	2	3	4	5	6	7	8	9	10
TERM 2	<p><b>Title/Unit: Trigonometry</b>  <b>Outcomes &amp; Content Focus:</b> MA5.1-10MG, MA5.2-13MG, MA5.3-15MG   Right Angled Trigonometry, Non Right Angled Trigonometry</p> <p><b>Skills:</b> Communicating (MA5.3-1WM), problem solving (MA5.3-2WM), reasoning (MA3.5-3WM). Applying trigonometric ratios to solve problems including those involving bearings. Applying trigonometric rules to solve problems in non-right angled triangles up to three dimensions.</p> <p><b>Preparation Skills for Stage 6:</b> This unit encompasses all learning related to trigonometry which is recommended as prerequisite learning for Stage 6 Mathematics Advanced. Students will learn to interpret diagrams, utilise rules and formulae and use this to solve complex measurement problems to a standard which will prepare them for Stage 6 studies. Trigonometry is included in all maths courses in Stage 6 – as such this unit will be a foundation for the continuing study of this strand of mathematics in senior years. Students will be working on their assessment task for this unit outside of class time, which will strengthen their time management skills to complete assessment tasks independently.</p> <p><b>HPGE Focus:</b> In this unit students will build their skills in utilising trigonometric ratios, rules and identities in different contexts. The students in the 5.3 Pathway HPGE class will focus on extended, complex, open ended problems to build their skills in interpreting information in various forms, recognising efficient strategies and solving problems related to trigonometry. Assessment will have increased rigour, exposing students to the academic requirements of Stage 6 maths courses, and will include questions, SST and verbs used in Stage 6 tasks.</p>									
						Assignment 20%				

