## **Fairfield College Subject Course Planning**

## Course: MAT100 LEARNING AREA: MATHEMATICS YEAR: 2024

Term 1	Week 1 29 Jan-2 Feb	Week 2 5 - 9 Feb	Week 3 12-16 Feb	Week 4 19-23 Feb	Week 5 26 Feb-1 Mar	Week 6 4-8 Mar	Week 7 11-15 Mar	Week 8 18-22 Mar	Week 9 25-28 Mar	Week 10 2-5 Apr	Week 11 8-12 Apr
Topics				STATISTICS							
Details	TOD and intro	, -	oras Theorem; Use osine and Sine Rule Students sta	Circle - Lei	Drawing Graphs – intro; Scatter plot line of best fit; Consider-data size, bias, sampling, types of relationships – direction linear/non-linear, strength, unusual features, cleaning data						
		Short 7									

Term 2	Week 1 29 Apr-3 May	Week 2 6-10 May	Week 3 13-17 May	Week 4 20-24 May	Week 5 27-31 May	Week 6 4-7 Jun	Week 7 10-14	Week 8 17-21	Week 9 24-27	Week 10 1-5 Jul		
Topics			STATI	MATHEMATICAL REASONING								
Details	collect data, sam Shape – Desc Calculation of IC	Multivariate Data – intro; Centre, Spread, Dot Plot, Box Plot; Combining Box and Dot Plot; Write question, collect data, sampling, sampling variation, Describe Features – centre – using statistics, dot plot, box plot; Shape – Describe/Compare; Unusual Features; Putting it together and making informal inference.  Calculation of ICI and use it to recognise the effect of sample size on the variability of an estimate and to make an inference. Prepare students to write a level 2 inference report.										
	Inte	ernal Assessm	ent - AS91264	Assessment (4	k 8)							

Term 3	Week 1 22-26 Jul	Week 2 29 Jul-2 Aug	Week 3 5-9 Aug	Week 4 12-16 Aug	Week 5 19-23 Aug	Week 6 26-30 Aug	Week 7 2-6 Sep	Week 8 9-13 Sept	Week 9 16-20 Sept	Week 10 23-27 Sept		
		MATHEMATICAL REASONING										
Details	Manipulating and simplifying expressions		ū	properties of d operations	Rela	te graphs, tables, e Linear – Graphs Quadratics	simultaneous linear equations with two unknowns Optimal Solutions					
	External Exam - AS91947 (5 Credits)											

Term 4	Week 1 14-18 Oct	Week 2 21-25 Oct	Week 3 29 Oct-1 Nov	Week 4 4-8 Nov	Week 5 11-15 Nov	Week 6 18-22 Nov	Week 7 25-29 Nov	Week 8 2-6 Dec	Week 9 9-13 Dec		
	MATHEM	IATICAL REA	SONING (AS	S 91947)	NCEA Exam						
Details	relate rate of gradient o	change to the of a graph	Revision an	d EOT Test							