Fairfield College Subject Course Planning

Course: Year 10 — 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	**TOD and intro**	**NUMBER**								**ALGEBRA**	
Level 2/3		Counting Sequence, Basic Addition, Subtraction, Multiplication and Division for Whole Numbers		Ones, Tens and hundreds and thousands in whole Numbers Simple Everyday fraction and %		Use range of Additive and Multiplicative strategies with whole Numbers, fractions, Decimals, %			**REVISION AND TEST**	Record and interpret additive and simple multiplicative strategies using words diagrams and symbols Understand Equality	
Level 4/5		Common fractions, decimals and percentage conversions; size and place values of integers and decimals (3dp)		Standard Form, significant figures and rounding decimals; Add/subtract fractions, decimals and integers		Fraction, decimal and percentage of an amount; Exponents (positive) Simple Interest, Rates and Ratios				Form and solve simple Linear Equations	

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	**ALGEBRA**						**DATA AND STATISTICS**			
Level 2/3	Find rules for next member in a sequential pattern; Generalise properties of addition and subtraction			Connect members of sequential pattern with their ordinal position and use tables, graphs and diagrams to find relations.		**REVISION AND TEST**	Plan/conduct surveys/experiments using PPDAC; determining variable/measures including variations;	Gather and clean data; use multiple displays, to find patterns/ variations/ relationships/trends in multivariate datasets; compare sample distributions visually, using measures of centre/spread/ proportion; Present a report of findings.		Evaluate statements and representations made by others based on data provided
Level 4/5	Form general rules involving multiplications and Division involving fractions and integers			Relate tables, graphs and equations to linear relationships in spatial patterns						

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
Topics	**DATA AND STATISTICS**			**MEASUREMENT**						
Level 2/3	Recognise and interpret situations involving - Probability - Chance Risk	Describe Probability - Experimental - Possible outcomes - Variation independence	**REVISION AND TEST**	Use relevant devices to measure length, area, volume and capacity, weight, mass temperature and time using right units.			Use linear scales and whole numbers of metric units for length, area volume and capacity, weight, temperature and time; Area of rectangles and Volume of Cuboids			**REVISION AND TEST**
Level 4/5				Convert between metric units using whole numbers/decimals; interpret and use scales, timetable and charts			Use edge lengths to find perimeter and area of rectangles, parallelogram and triangles; Use formulae's to find perimeters and areas of polygons			

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	**Note:** **Keep extending students with Level 6 work where applicable as we progress in different topics.**
Topics	**GEOMETRY**									
Level 2/3	Spatial Features for plane shapes/prisms with justification; identify and describe plane shapes include drawings/models. Properties of parallel lines.		Create/Use maps to show direction and pathways; Use coordinates/other systems to specify locations/paths		Communicate and describe the transformations – reflection, rotation, translation enlargement		Pythagoras Theorem; Use trig relations to find angles and sides for rights angled triangles; Similar Triangles		**School Based Activities**	
Level 4/5	Two/three dimensional shapes/geometric properties; relate 2 and 3 dimens.; angle properties and nets and polyhydra		Communicate locations using distance and grids; loci; interpret points and lines on coordinate planes		Use the invariant properties of figures and objects under transformation; Define and use transformations and describe the invariant properties of figures.					