Long Term Plan: Year 10 Mathematics (Foundation – Grades 3-5)

T e r m 1	W.C	W.C	W.C	W.C	W.C	W.C	W.C	W.C	w.c	W	v.c	W.C	W.C	W.C	W.C
	04.09.23 11.09.23 18.09.23 25.09 Equations and Inequalities				Simultaneous Equations		Similarity and Congruence R			Right-A	Angled Trig	27.11.23 gonometry	04.12.23 11.12.23 18.12.23 Non-Calculator Methods		
	 One and two-step equations/inequalities Form and solve equations/inequalities Represent inequalities on a number line Draw straight line graphs and solve Equations with unknowns on both sides Inequalities with unknowns on both sides Solve quadratic by factorising (x² + bx + c) 			•	 Solve simultaneous graphically solve simultaneous equations algebraically (adjusting one) Solve simultaneous equations algebraically (adjusting both) Form and solve simultaneous equations in context 			 Enlarge a shape by a positive scale factor including fractional Missing sides and angles in pairs of similar shapes Establish similarity particularly using angles in parallel lines Understand congruency 			 Side lengths using Pythagoras' Multi-step Pythagoras problems Use sine/cosine/tangent ratios to find missing side lengths Use sine/cosine/tangent ratios to find missing angles Recall key trig values (non-calc) 			 Written methods of four operations with integers and decimals Related calculations with place value Four operations with fractions Calculate with mixed numbers Estimate calculations using rounding Error intervals Multi-step mixed non-calc problems 	
T e r m 2	W.C 01.01.24 Rati Write/exp Link ratio Ratio prol Problems Problems Solve bes Combine	W.C 08.01.24 os and Fract oress/simplify rat s and fractions blems involving s with ratios and s with currency co t value for mone sets of ratios	W.C 15.01.24 ions io statements sharing scales proversion y problems	W.C W.C W.C 22.01.24 29.01.24 05.02.24 Percentages and Interest • FDP Conversions and order/compare • Percentage of amounts inc. multipliers • Percentage increase/decrease problems • Express percentages and find change • Reverse percentage calculations • Simple and compound interest • Multi-step FDPR problem solving • reverse fraction problems			W.C 19.02.24 V Parts of a Area/peri Multi-step Sector are Volume a	W.C 26.02.24 Vorking with circle and recap meter of semi ar p area/circumfer ea and arc length nd surface area o nd surface area o	W.C 04.03.1 area/circum ad quarter- ence proble of a cylinde of spheres a	24 1 Imference -circles lem solving er and cones	v.c L1.03.24 Ty e • M • P • D a • R s • Fi fc	W.C 18.03.24 pes of Numl Sequenc Ault/fact/prime a rime factorisatio escribe/continue nd geometric sec ecognise/use oth acluding triangula ind and use the r or linear sequence	W.C 25.03.24 Deers and ces and HCF/LCM n inc HCF/LCM e arithmetic quences her sequences ar & Fibonacci nth term rule ces		
T e r 3	w.c 15.04.24	w.c 22.04.24	w.c 29.04.24	w.c 06.05.24	w.c 13.05.24	w.c 20.05.24	w.c 03.06.24	w.c 10.06.24	w.c 17.06.3	w 24 2	v.c 24.06.24	w.c 01.07.24	w.c 08.07.24	w.c 15.07.24	w.c 22.07.24
	Data Handling Probability						Indices and Roots				Y10	PPEs	Vectors		
	 Frequency tables and frequency polygons Draw/interpret bar charts and pie charts Averages from lists and problem solving Averages from frequency tables Construct and interpret stem and leaf diagrams Compare data sets using averages Scatter graphs Write probabilities and use the fact that probabilities sum to 1 Relative frequency and estimating number of outcomes Probability from two-way tables, venn diagrams, frequency trees Use tree diagrams with indep' and dependent events 						 Evaluate squares, cubes, and roots Use a calculator with powers and roots Use the first three laws of indices Algebraic expressions with indices Understand zero and negative powers Write numbers in standard form Calculate with numbers in standard form 			ots rs form			 Understa Translate Vectors m Understa column version 	nd and represent shapes by a give nultiplied by a sca nd addition and s ectors	: vectors n vector alar subtraction of