Year 9 *MATHEMATICS* Curriculum Overview

HALF TERM 1

Unit 1: Indices and standard form	1.1 Indices 1.2 Calculations and estimates 1.3 More indices 1.4 Standard form
Unit 2: Expressions and formulae	2.1 Solving equations 2.2 Substituting into expressions 2.3 Writing and using formulae 2.4 Using and rearranging formulae 2.5 Index laws and brackets 2.6 Expanding double brackets

HALF TERM 2

Unit 3: Dealing with data	3.1 Planning a survey 3.2 Collecting data 3.3 Calculating averages 3.4 Displaying and analysing data 3.5 Presenting and comparing data
Unit 4: Multiplicative reasoning	4.1 Enlargement 4.2 Negative and fractional scale factors

HALF TERM 3

Unit 4 (cont.)	4.3 Percentage change 4.4 Compound measures 4.5 Direct and inverse proportion
Unit 5: Constructions	5.1 Using scales 5.2 Basic constructions 5.3 Constructing triangles 5.4 Using accurate scale diagrams
Unit 6 : Sequences, inequalities, equations	6.1 nth term of arithmetic sequences 6.2 Non-linear sequences 6.3 Inequalities 6.4 Solving equations

HALF TERM 4	
Unit 6 (cont.)	6.5 Proportion
Unit 7: Circles, Pythagoras and prisms	7.1 Circumference of a circle 7.2 Area of a circle 7.3 Pythagoras' theorem 7.4 Prisms and cylinders 7.5 Errors and bounds
Unit 8: Straight line graphs **y = mx +c**	8.1 Using y = mx + c 8.2 More straight-line graphs
HALF TERM 5	
Unit 8 (cont.)	8.3 Simultaneous equations 8.4 Graphs of quadratic functions 8.5 More non-linear graphs
Unit 9: Probability – **experimental and theoretical**	9.1 Mutually exclusive events 9.2 Experimental and theoretical probability
HALF TERM 6	
Unit 9 (cont.)	9.3 Sample space diagrams 9.4 Two-way tables 9.5 Venn diagrams
Unit 10: Comparing shapes, trigonometry	10.1 Congruent and similar shapes 10.2 Ratios in triangles 10.3 The tangent ratio 10.4 The sine ratio 10.6 Using trigonometry to find angles