Holy Trinity
Maths Long Term Plan – Secondary 2024 - 25

Year	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Y7	The number system 1 -Integers and decimals -Approximations and estimations - Positive and negative numbers - Order of operations	The number system 2 - Factors and multiples - Prime factor decomposition - Expressions and equations	2D Geometry - Angles - Classifying 2-D shapes - Constructions	The Cartesian plane - Coordinates - Area of 2-D shapes -Transformations	3D -Geometry -3D shapes - Volume and surface area of Prisms	Representations and reasoning with data - Measure - Univariate data
Y8	Fractions - Conceptualising and comparing fractions - Manipulating and calculating with fractions	Ratio and Proportion - Percentages - Ratio	Proportional reasoning - Proportion	Proportional reasoning Proportional graphs - Pie charts - Circles	Equations and inequalities - Solving equations - Solving inequalities	Graphical representations - Sequences - Linear graphs
Y9	Probability - FDP Review **Recurring decimals** -Probability - Venn diagrams **Set theory**	Geometry of triangles - Angles in polygons Bearings **Circle theorem** - Constructions, congruence, and loci - Pythagoras' Theorem **3d Pythagoras**	Ratio and proportion - Ratio review - Similarity and enlargement **2d and 3d similarity**	Linear equations - Formula **- Trinomials** - Form and solve equations - Simultaneous equations	Reasoning with number -Indices and standard form - Growth and decay	Statistics - Bivariate data -Stem and leaf diagrams Averages from tables **CF and boxplots**

Year	Autumn 1- Using Number	Autumn 2 – Types of number	Spring 1- Representing data	Spring 2 – – 2D and 3D shape	Summer 1- PAV	Summer 2 - Probability
Y10 Foundation	-Integers and decimals including negative -Fraction arithmetic -Approximation and estimation -Limits of accuracy -Indices and roots	-Factors and multiples -Sequences and nth term -Manipulating expressions -Solve linear equations and inequalities	-Sampling and averages -Statistical diagrams -Bivariate data	-Properties of 2D and 3D shape -Plans and elevations -Constructions -Loci -Transformations	- Pythagoras - Perimeter - Area - Surface area - Volume	Probability Tree diagrams Venn diagrams
Y10 Higher	-Integers and decimals - Capture recapture -Upper and lower bounds -Indices -Surds	-Quadratic Sequences - Manipulate expressions - Simultaneous equations	- Statistical diagrams	-Similarity and congruence -Vectors	- Pythagoras - Perimeter - Area - Surface area - Volume	Probability Set theory

	Autumn 1	Autumn 2	Spring 1	Spring 2
Y11 Foundation	UNIT 11: Ratio and Proportion UNIT 12: Right-angled triangles: Pythagoras and trigonometry UNIT 13: Probability	UNIT 14: Multiplicative reasoning: more percentages, rates of change, compound measures UNIT 15: Constructions: triangles, nets, plan and elevation, loci, scale drawings and bearings	UNIT 16: Algebra: quadratic equations and graphs UNIT 17: Perimeter, area and volume 2: circles, cylinders, cones and spheres UNIT 18: More fractions, reciprocals, standard form, zero and negative indices	UNIT 19: Congruence, similarity and vectors UNIT 20: Rearranging equations, graphs of cubic and reciprocal functions and simultaneous equations
Y11 Higher	UNIT 10: Probability UNIT 11: Multiplicative reasoning: direct and inverse proportion, relating to graph form for direct, compound measures, repeated proportional change UNIT 12: Similarity and congruence in 2D and 3D	UNIT 13: Sine and cosine rules, ab sin C, trigonometry and Pythagoras' Theorem in 3D, trigonometric graphs, and accuracy and bounds UNIT 14: Statistics and sampling, cumulative frequency and histograms	UNIT 15: Quadratics, expanding more than two brackets, sketching graphs, graphs of circles, cubes and quadratics UNIT 16: Circle theorems and circle geometry UNIT 17: Changing the subject of formulae (more complex), algebraic fractions, solving equations arising from algebraic fractions, rationalising surds, proof	UNIT 18: Vectors and geometric proof UNIT 19: Direct and indirect proportion: using statements of proportionality, reciprocal and exponential graphs, rates of change in graphs, functions, transformations of graphs