

Foundation

Year 10 (F)	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
Key content	Unit 1: Number	Unit 3: Graphs, tables	Unit 5:	Unit 7: Averages and	Unit 9: Graphs	Unit 11: Ratio and
	Unit 2: Algebra	and charts	Equations,	range	Unit 10: Transformations	proportion
		Unit 4: Fractions	inequalities	Unit 8: Perimeter, area		Unit 12: Right-angled
		and percentages	and	and volume 1		triangles
			sequences			
			Unit 6: Angles			
Key concepts	Unit 1a	Unit 3a	Unit 5a	Unit 7	Unit 9b	Unit 11a
and skills	1.1 Calculations	3.1 Frequency tables	5.1 Solving equations 1	7.1 Mean and range	9.1 Coordinates	11.1 Writing ratios
	Unit 1b	3.2 Two-way tables	5.2 Solving equations 2	7.2 Mode, median and	9.2 Linear graphs	11.2 Using ratios 1
	1.2 Decimal numbers	3.3 Representing data	5.3 Solving equations	range	9.3 Gradient	11.3 Ratios and measures
	Unit 1c	3.4 Time series	with brackets	7.3 Types of average	9.4 y = mx + c	11.4 Using ratios 2
	1.3 Place value	3.5 Stem and leaf diagrams	5.4 Introducing inequalities	7.4 Estimating the mean	Unit 9a	11.5 Comparing using ratios
	Unit 1d	Unit 3b	5.5 More inequalities	7.5 Sampling	9.5 Real-life graphs	Unit 11b
	1.4 Factors and multiples	3.6 Pie charts	5.6 Using Formulae	Unit 8	9.6 Distance-time graphs	11.6 Using proportion
	1.5 Squares, cubes	Unit 3c	Unit 5b	8.1 Rectangles,	9.7 More Real-life graphs	11.7 Proportion and graphs
	and roots	3.7 scatter graphs	5.7 Generating sequences	parallelograms and	Unit 10	11.8 Proportion problems
	1.6 Index notation	3.8 Line of best fit	5.8 Using the nth term of	triangles	10.1 Translation	Unit 12
	1.7 Prime factors	Unit 4a	a sequence	8.2 Trapezia and	10.2 Reflection	12.1 Pythagoras' Theorem 1
	Unit 2a	4.1 Working with fractions	Unit 6a	changing units	10.3 Rotation	12.2 Pythagoras' Theorem 2
	2.1 Algebraic expressions	4.2 Operations with	6.1 Properties of shapes	8.3 Area of	10.4 Enlargement	12.3 Trigonometry: the
	Unit 2b	fractions	6.2 Angles in parallel lines	compound shapes	10.5 Describin	sine ratio 1
	2.2 Simplifying expressions	4.3 Multiplying fractions	6.3 Angles in triangles	8.4 Surface area of 3D solids	g	12.4 Trigonometry: the
	2.3 Substitution	4.4 Dividing fractions	Unit 6b	8.5 Volume of prisms	enlargements	sine ratio 2
	2.4 Formulae	4.5 Fractions and decimals	6.4 Exterior and	8.6 More volume and	10.6 Combinin	12.5 Trigonometry:
	2.5 Expanding brackets	4.6 Fractions	interior angles	surface area	g	the cosine ratio
	2.6 Factorising	and	6.5 More exterior		transformatio	12.6 Trigonometry:
	2.7 Using expressions	percentages	and interior angles		ns	the tangent ratio
	and formulae	Unit 4b	6.6 Geometrical problems			12.7 Finding lengths
		4.7 Calculating percentages				and angles using
		1				trigonometry
		4.8 Calculating percentages				



Year 11(F)	Advent 1	Advent 2	Lent 1	Lent 2
Key content	Unit 13: Probability	Unit 15: Constructions, Loci and bearings	Unit 17: Perimeter, area and volume 2	Unit 19: Congruence, similarity and
	Unit 14: Multiplicative reasoning	Unit 16: Quadratic equations and graphs	Unit 18: Fractions, indices and standard	vectors
			form	Unit 20: More algebra
Key concepts	Unit 13	Unit 15a	Unit 17	Unit 19a
and skills	13.1 Calculating probability	15.1 3D solids	17.1 Circumference of a circle 1	19.1 Similarity and enlargement
	13.2 Two events	15.2 Plans and elevations	17.2 Circumference of a circle 2	19.2 More similarity
	13.3 Experimental probability	15.3 Accurate drawings 1	17.3 Area of a circle	19.3 Using similarity
	13.4 Venn diagrams	15.4 Scale drawings and maps	17.4 Semicircles and sectors	19.4 Congruence 1
	13.5 Tree diagrams	15.5 Accurate drawings 2	17.5 Composite 2D shapes and cylinders	19.5 Congruence 2
	13.6 More tree diagrams	Unit 15b	17.6 Pyramids and cones	Unit 19b
	Unit 14	15.6 Constructions	17.7 Spheres and composite solids	19.6 Vectors 1
	14.1 Percentages	15.7 Loci and regions	Unit 18a	19.7 Vectors 2
	14.2 Growth and decay	15.8 Bearings	18.1 Multiplying and dividing fractions	Unit 20
	14.3 Compound measures	Unit 16a	Unit 18b	20.1 Graphs of cubic and reciprocal
	14.4 Distance, speed and time	16.1 Expanding double brackets	18.2 The laws of indices	functions
	14.5 Direct and inverse proportion	16.2 Plotting quadratic graphs	18.3 Writing large numbers in standard	20.2 Non-linear graphs
		Unit 16b	form	20.3 Solving simultaneous equations
		16.3 Using Quadratic graphs	18.4 Writing small numbers in standard	graphically
		16.4 Factorising quadratic expressions	form	20.4 Solving simultaneous equations
		16.5 Solving quadratic equations	18.5 Calculating with standard form	algebraically
				20.5 Rearranging formulae
				20.6 Proof

<u>Higher</u>



Year 10 (H)	Advent 1	Advent 2	Lent 1	Lent 2	Pentecost 1	Pentecost 2
Key content	Unit 1a: Calculations, checking and rounding Unit 1b: Indices Unit 1c: HCF & LCM, Standard form Unit 1d: Surds Unit 2a: Setting up and solving equations. Rearranging the formula. Unit 2b: Sequences	Unit 3a: Averages Unit 3b: Interpreting and representing data Unit 4: Fractions, ratio and percentages	Unit 5a: Angles, polygons and parallel lines Unit 5b: Pythagoras and trigonometry Unit 6a: Linear graphs Unit 6b: Real life graphs	Unit 7a: Area Unit 7b: Surface area and volume Unit 7c: Bounds Unit 8a: Transformations Unit 8b: Bearings Unit 8c: Constructions & Loci	Unit 9a: Solving quadratics and simultaneous equations Unit 9b: Solving linear inequalities Unit 10: Probability	Unit 11: Multiplicative reasoning Unit 12: Similarity and congruence
Key concepts	Unit 1a 1.1 Number problems	Unit 3a 3.1 Averages and range	Unit 5a 5.1 Angle properties of	Unit 7a 7.1 Perimeter and area	Unit 9a 9.1 Solving quadratic	Unit 11 11.1 Proportionality using
and skills	 1.1 Number problems and reasoning 1.2 Rounding and estimating Unit 1b 1.3 Calculating with powers (indices) 1.4 Zero, negativeand fractionalindices Unit 1c 1.5 HCF and LCM 1.6 Powers of 10 and standardform Unit 1d 1.7 Surds Unit 2a 2.1 Expanding brackets and factorising quadratics. 2.2 Solving and setting up equations. 2.3 Rearranging equations 2.4 Iteration Unit 2b 2.5 Sequences 	Unit 3b 3.2 Statistical diagrams 3.3 Time series 3.4 Scatter graphs 3.5 Line of best fit Unit 4 4.1 Fractions 4.2 Ratios 4.3 Ratio and proportion 4.4 Percentages 4.5 Fractions, decimalsand percentages	 5.1 Angle properties of triangles and quadrilaterals 5.2 Interior angles of a polygon 5.3 Exterior angles of a polygon Unit 5b 5.4 Pythagoras' theorem 1 5.5 Pythagoras' theorem 2 5.6 Trigonometry 1 5.7 Trigonometry 2 Unit 6a 6.1 Linear graphs 6.2 Perpendicular lines Unit 6b 6.3 Real-life graphs 6.1 Graphing rates of change 6.2 Velocity time graphs 	 7.2 Circles including sectors Unit 7b 7.3 Surface area and volume 7.4 Cylinders and spheres 7.5 Pyramids and cones 7.6 3D solids Unit 7c 7.7 Bounds 7.8 Prisms Unit 8a 8.1 Transformations Unit 8b 8.2 Scale drawings and bearings Unit 8c 8.3 Constructions and Loci 	 equations 9.2 Completing the square 9.3 Quadratic formula 9.4 Solving simple simultaneous equations 9.5 More simultaneous equations 9.6 Solving linear and quadratic simultaneous equations Unit 9b 9.7 Solving linear inequalities Unit 10 10.1 Combined events 10.2 Mutually exclusive events 10.3 Experimental probability 10.4 Independent events and tree diagrams 10.5 Conditional probability 10.6 Venn diagrams and set notation 	the unitary method 11.2 Best buy 11.3 Compound measures 11.4 Kinematics formulas 11.5 Direct proportion 11.6 Inverse proportion Unit 12 12.1 Congruence 12.2 Geometric proof and congruence 12.3 Similarity 12.4 Similarity in 3D solids



Year 11(H)	Advent 1	Advent 2	Lent 1	Lent 2
Кеу	Unit 13a: Graphs of	Unit 15: Quadratics and graphs	Unit 17a: Rationalise the denominator	Unit 19a: Reciprocal and Exponential
content	Trigonometric functions	Unit 16a: Circle theorems	Unit 17b: Algebraic fractions	Graphs
	Unit 13b: Area of a triangle, sine	Unit 16b: Circle Geometry	Unit 17c: Changing the subject of a	Unit 19b: Gradient and area under graphs
	and cosine rule		formula	
	Unit 14: Cumulative		Unit 17d: Algebraic proofs	
	frequency, boxplots and		Unit 17d: Functions	
	Histograms		Unit 18: Vectors and geometric proof	
Key	Unit 13a	Unit 15	Unit 17a	Unit 19
concepts	13.1 Graph of the sine function	15.1 Sketching a quadratic from	17.1 Rationalise the denominator	19.1 Sketch reciprocal and exponential
and skills	13.2 Graph of the cosine function	factorizing	Unit 17b	functions
	13.3 Graph of the tangent function	15.2 Identifying a quadratic from a	17.2 Algebraic fractions	19.2 Exponential growth and decay
	13.4 Transforming trigonometric graphs	graph	17.3 Simplifying algebraic fractions	Unit 19b
	Unit 13b	15.3 Sketching a cubic function	17.4 Solving algebraic fractions	19.3 Estimate the area under a quadratic
	13.5 Area of a traingle	15.4 Solving simultaneous equations	Unit 17c	graph
	13.6 The sine and cosine rule	graphically	17.5 Changing the subject	19.4 Estimate the gradient of a quadratic
	13.7 Solving problems in 3D	15.5 Representing quadratic inequalities	Unit 17d	or non-linear graph at a given point
	Unit 14	graphically and solve	17.6 Algebraic proofs	by sketching the tangent and finding
	14.1 Sampling	15.6 Quadratic equations	Units 17e	its gradient
	14.2 Cumulative frequency	15.7 Using iteration to solve equations	17.7 Functions	19.5 Interpret the gradient of non-linear
	14.3 Box plots	Unit 16a	Unit 18	graph in curved distance-time and
	14.4 Drawing histograms	16.1 Knowing and applying basic circle	18.1 Vectors and vector notation	velocity–time graphs:
	14.5 Interpreting histograms	theorems	18.2 Vector arithmetic	19.6 Interpret the gradient of a linear or
	14.6 Comparing and describing	16.2 Find and give reasons for missing	18.3 Vector geometry	non-linear graph in financial contexts
	distributions	angles when combining circle	18.4 Parallel vectors and collinear points	19.7 Interpret the area under a linear or
		theorems	18.5 Solving geometric problems	non-linear graph in real-life contexts
		16.3 Proofing circle theorems		19.8 Interpret the rate of change of graphs
		Unit 16b		of containers filling and emptying;
		16.4 Recognize and construct the graph of		
		a circle		
		16.5 Find the equation of a tangent		