

2023/ 2024	AUTUMN		SPRING		SUMMER		
	HT1	HT2	HT3	HT4	HT5	HT6	
Y7	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Number <p>Key concepts</p> <p>Types of Numbers Primes / Multiples / Factors Place Value Whole Numbers (+/-/x/÷) Decimal Calculations (+/-/x/÷) Order of Operations Rounding to the nearest 10, 100, 1000 and integer Rounding to a given number of decimal places</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Algebra / Graphs <p>Key concepts</p> <p>Introduction to Sequences Substitution Simplifying Expand (single) Solving Equations using a function machine Construct a formula from a worded problem Coordinates (x, y) - four quadrants Plotting a linear graph from a table of values</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Fractions / Percentages / Ratio <p>Key concepts</p> <p>Fraction Basics (equivalent, simplify, convert) F/D/P Conversions Ordering fractions, decimals and percentages Addition and Subtraction with Fractions Fractions / Percentages of Amounts</p> <p>Ratio Calculations (simplify, share, recipes)</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Geometry <p>Key concepts</p> <p>Properties of 2D / 3D Shapes Perimeter & Area (Square, rectangle, triangle, parallelogram, trapezium) Compound Shapes Plans & Elevations</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Angles & Transformations <p>Key concepts</p> <p>Angle Facts (line, point, triangle) Measuring & Drawing Angles Constructions (perpendicular bisector, angle bisector, midpoint of a line, perpendicular from point to a line) Introduction to Transformations</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Probability & Data <p>Key concepts</p> <p>Introduction to Probability Tally Charts / Pictograms / Bar Charts / Frequency Tables Mean, Mode, Median, Range Best average to use</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	
	Y8	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Number <p>Key concepts</p> <p>Revision of Four Operations (whole/decimal) Rounding (decimals places/significant figures) Accuracy & Estimating Basic Power Rules/Square Root/Cube Root Revision of Prime Factor Trees/LCM/HCF Introduction to Standard Form</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Algebra / Graphs <p>Key concepts</p> <p>Expand (double) / Factorise (quadratic) Rearranging Formulae (simple) Solving Equations (brackets / unknown both sides) Introduction to Inequalities Conversion Graphs / Real Life Graphs Finding the equation of a straight line Graph Plotting a quadratic graph</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Fractions / Percentages / Ratio <p>Key concepts</p> <p>F/D/P Conversions / Worded Problems Increase /decrease an amount by a given fraction or percentage, including the use of a multiplier Best Buy/Recipes/Reading Timetables Unit Conversions/Maps/Scale Drawings</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Geometry <p>Key concepts</p> <p>Area and circumference of a circle Perimeter & Area of Compound Shapes involving circles Surface Area & Volume (triangular prism, cylinder)</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Angles & Transformations <p>Key concepts</p> <p>Parallel Lines Angles in Polygons Translation / Rotation / Reflection Positive and Fractional Enlargement of Shapes</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Probability & Data <p>Key concepts</p> <p>Two-Way Tables & Sample Space Diagrams Time Series & Line graphs Pie charts Grouped Frequency Tables (calculate Averages including mean)</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test
		Y9	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Number <p>Key concepts</p> <p>Standard Form Calculations with standard form Revision of F/D/P Powers and roots (negative and fractional) Manipulating Surds (simplify and rationalise)</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Algebra <p>Key concepts</p> <p>Simplifying / Expanding / Substitution Factorising (linear / quadratic / D.O.T.S.) Solve by using Quadratic Formula Completing the Square / Turning Points Rearranging Formulae (harder) Algebraic Fractions (+/-/x/÷) Functions (composite, inverse, algebraic)</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Percentages <p>Key concepts</p> <p>Percentage change and reverse percentages Repeated percentage change Simple and compound interest</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Geometry <p>Key concepts</p> <p>Pythagoras' Theorem Trigonometry Exact trigonometric values Surface Area and Volume of cones and spheres</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Constructions & Transformations <p>Key concepts</p> <p>Triangle constructions Loci Bearings Negative Enlargement of shapes</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test

Y 10

Y 11

<p>Area of study</p> <ul style="list-style-type: none"> ➤ Number <p>Key concepts</p> <p>Revision of Prime Factor Trees/LCM/HCF Revision of Powers & Roots Manipulating Surds Fractions & Recurring Decimals Rounding/Estimation/Iteration Upper & Lower Bounds Standard Form Calculations</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Algebra / Shape <p>Key concepts</p> <p>Sequences (linear / quadratic) Inequalities (linear / quadratic) Graphical Inequalities / Proof Simultaneous Equations (linear/quadratic) Circles - Sectors / Segments Volume and Surface Area of Pyramids, cones and spheres Circle Theorems</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Graphs <p>Key concepts</p> <p>Coordinates / Midpoints Straight Line Graphs (gradient / intercept) Parallel Lines / Perpendicular Lines Plotting Graphs (linear / quadratic) Harder Graphs / Circle Graphs</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Graphs / Percentages <p>Key concepts</p> <p>Mock Exams Graph Transformations</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Ratio / Proportion <p>Key concepts</p> <p>Distance Time Graphs Velocity Time Graphs Real Life Graphs / Gradients of Real Life Graphs Ratio Calculations Work Experience</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Transformations <p>Key concepts</p> <p>Direct/Inverse proportion Unit Conversions / Speed, Density, Pressure Translation / Rotation / Reflection Enlargement of Shapes (negative, fractional)</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ End of Topic Test
<p>Area of study</p> <ul style="list-style-type: none"> ➤ Number and formulae <p>Key concepts</p> <p>Understanding and rearranging formula Compound change, growth and decay Surds Pythagoras Negative and fractional indices The product rule for counting Solving equations revision Recursive sequences and iteration</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ AQA assessment 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Shape <p>Key concepts</p> <p>3D Pythagoras Similarity, ASF and VSF Right angled trigonometry Non right angled trig Volumes and surface areas of 3d solids Inverse and direct proportion Transformations</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ AQA assessment 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Functions, graphs and algebra <p>Key concepts</p> <p>Linear functions and graphs Non-linear functions and graphs: cubic, Exponential, reciprocal Circle theorems Circle graphs and tangents Algebraic proof</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ AQA assessment 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Exam preparation <p>Key concepts</p> <p>Solving algebraic fractions Completing the square Inverse and composite functions Vectors Probability revision Data revision Proportion revision Quadratic formulae</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ AQA assessment 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Past Papers and revision <p>Key concepts</p> <p>Exam technique</p> <p>Combining different areas of Maths for exam-style questions</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ Past exam Papers 	<p>Area of study</p> <ul style="list-style-type: none"> ➤ Examinations <p>Key concepts</p> <p>Exam Revision</p> <p>Assessment method</p> <ul style="list-style-type: none"> ➤ Past Papers

NOTES	AREAS OF STUDY	KEY CONCEPTS	ASSESSMENT METHOD
	Areas of study may overlap and build upon prior learning during the year. For example, shape in year 7 will contain questions including algebra that was learnt earlier in the year.	Classes might move more slowly or more quickly through the key concepts, depending on whether they are ready to move onto the next stage of their learning.	Assessments questions will be drawn from official AQA questions to ensure relevance to final GCSEs and for quality assurance purposes.