

Hartford Church of England High School – Year 7 – Maths

Year 7	HT1	HT2	HT3	HT4	HT5	HT6
Topic(s)	Addition and Subtraction, Perimeter, Rounding	Multiplication and Division, Factors and Multiples, Area	Fractions	Algebraic Manipulation	Shape and Angles	Coordinates, Mean, Two-way tables, Sequences
Focus	Understand and use place value for decimals, measures and integers of any size. Addition and Subtraction (including decimals and negatives). Calculate and solve problems involving perimeters of rectangles and compound shapes (not circles). Round numbers and measures to an appropriate degree of accuracy [nearest 1, 10, 100 or 1000 or nearest 0.1, 0.01 or 0.001].	Multiplication and Division (including decimals and negatives). Factors, Multiples, Squares and Primes. Find HCF and LCM by listing. Area of rectangles, triangles and compound shapes.	Express one quantity as a fraction of another, where the fraction is less than 1 and greater than 1. Adding and Subtracting Fractions (including proper fractions, improper fractions and mixed numbers). Compare and order fractions, including fraction decimal equivalence. Fractions as an operation.	Order of Operations. Basic Rules of Algebra. Collecting Like Terms. Forming Expressions. Expanding Single Brackets. Factorise an expression into a single bracket. Substitute into linear expressions and formulae (including negative numbers).	Apply the properties of angles at a point, angles at a point on a straight line, vertically opposite angles, angles in polygons. Derive, describe and illustrate properties of triangles, quadrilaterals and other polygons. Describe, sketch and draw regular polygons, and other polygons that are reflectively and rotationally symmetric.	Read and plot coordinates in all 4 quadrants. Describe, interpret and compare observed distributions of a single variable through the use of the mean. Solve questions involving two-way tables. Recognise and continue number sequences. Generate a sequence by spotting a pattern or using a term-to-term rule given algebraically or in words.
Vocabulary	Evaluate, Estimate, Ascending, Difference, Length, Width, Nearest, Decimal, Place, Circumference, Approximate	Consecutive, Divisible, Highest Common Factor, Lowest Common Factor, Multiple, Prime, Prime Factor, Product, Remainder	Convert, Decimal, Equivalent, Mixed Number, Numerator, Denominator, Percentage (%), Proper/Improper, Proportion, Simplest form	Brackets, Equation Expression, Evaluate, Prove, Simplify, Solve (an equation), Substitute, Term, Unknown, Variable	Adjacent (side), Acute, Obtuse, Reflex, At a Point, On a Straight Line, Base angles, Parallel, Perpendicular, Polygons, Mirror Line, Line of Symmetry	Axis, Co-ordinates, Direction, Grid. Origin, Position, Quadrant, Linear sequence, Increasing, Decreasing
Assessment	Mid Stakes 1: Topic Test Mid Stakes 2: Topic Test	Mid Stakes 3: Topic Test Mid Stakes 4: Topic Test	Mid Stakes 5: Topic Test High Stakes 1: Topic Test	Mid Stakes 6: Topic Test Mid Stakes 7: Topic Test	Mid Stakes 8: Topic Test High Stakes 2: Topic Test	Mid Stakes 9: Topic Test Mid Stakes 10: Topic Test

Curriculum Thread	Number Geometry and Measures	Number Geometry and Measures	Number	Algebra	Geometry and Measures	Algebra Probability and Statistics
Wider Reading	Sparx Maths – Go to 'Independent Learning' - Use of Corbett Maths Video and worksheets https://corbettmaths.com/ Adding mixed numbers	Sparx Maths – Go to 'Independent Learning' - Use of Corbett Maths Video and worksheets https://corbettmaths.com/ Finding HCF and LCM using product of prime method	Sparx Maths – Go to 'Independent Learning' - Use of Corbett Maths Video and worksheets https://corbettmaths.com/ Multiplication and division of decimals	Sparx Maths – Go to 'Independent Learning' - Use of Corbett Maths Video and worksheets https://corbettmaths.com/ Expanding double brackets Solving linear equations	Sparx Maths – Go to 'Independent Learning' - Use of Corbett Maths Video and worksheets https://corbettmaths.com/ Exterior angles	Sparx Maths – Go to 'Independent Learning' - Use of Corbett Maths Video and worksheets https://corbettmaths.com/ Finding the nth term