# Hartford Junior School
# Maths Long Term Plan

| **Autumn Term** using planning from NCETM Curriculum Prioritisation materials (Y3-5) & White Rose (Y6). Mastering Number lesson & Maths Medium Term Plans give further detailed information on maths main lessons & maths fluency. | | | | |
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| **Year 3** | Geometry- Right angles<br>Right angles as a property of shape or description of turn | Number to 100 & to 200<br>Ordinal number & magnitude focus using counting stick (lineal model) | Numbers to 1000<br>Composition, place value, bridging & boundary crossing | Numbers to 1000<br>Length, converting mm/cm/m, estimation, number lines, comparison, ordering, partitioning, multiples of ten, intervals of 100,200,250, 500, volume |
| **Year 4** | Perimeter<br>Perimeter of regular & irregular polygons | Column addition & subtraction<br>Columnar methods up to three-digit numbers | Numbers to 10,000<br>Composition, place value, placing on linear model, | Numbers to 10,000<br>Rounding, dividing into equal parts, additive & multiplicative number facts | Multiplication 3, 6, 9<br>Recall multiplication & division facts & recognise products as multiples |
| **Year 5** | Angles<br>Compare angle size using acute, obtuse & reflex, estimate & measure using degrees, draw angles | Negative Numbers<br>counting, comparing, calculating | Decimal fractions<br>10ths & 100ths, describe, order, rounding, adding & subtracting | Money<br>Comparing, converting, addition & subtraction using efficient strategies | Short multiplication & division<br>Multiply & divide 3 digit numbers by one-digit number, partitioning, remainders, no remainders |
| **Year 6** | Structures<br>Represent additive & multiplicative structures using bar models | Place value<br>Read, write, order & compare up to 10,000,000 & determine value of each digit, solve problems | Four operations<br>Solve problems involving addition, subtraction, multiplication & division, deciding which operation to use in variety of problems, estimation to check calculations | Fractions<br>number line,<br>compare & order,<br>add & subtract,<br>multiply & divide,<br>calculate fractions of an amount, | Shape/area/perimeter<br>perimeter of regular 2D shapes & rectilinear shapes<br>calculate the area of triangles & parallelograms |

| **Spring Term** using planning from NCETM Curriculum Prioritisation materials (Y3-5) & White Rose (Y6). Mastering Number lesson & Maths Medium Term Plans give further detailed information on maths main lessons & maths fluency. | | | | | |
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| **Year 3** | Addition & subtraction –<br>Manipulating the additive relationship & securing mental calculation<br>Inverse & commutative | Column addition<br>Add up to three-digit numbers using columnar methods | Time<br>Minutes past, minutes to, duration | Multiplication- 2 4, 8 times table<br>Apply known multiplication & division facts to solve contextual problems | Review numbers to 1000<br>Multiples of 10, bridging, 10 more/less across 100 | Column subtraction<br>Subtract up to three-digit numbers using columnar methods |
| **Year 4** | Multiplication-7 times tables<br>Recall multiplication & division facts & recognise products as multiples | Understanding & manipulating multiplicative relationships<br>Multiply & divide whole numbers by 10 & 100, manipulate multiplication & division equations, distributive property | Coordinates<br>positions, movements as translations, plot points to draw polygons, | Review numbers to 10,000<br><br>Focus on rounding & difficult points | Review of fractions<br><br>Whole & parts, equal & unequal | Fractions greater than 1<br><br>Location of fraction on linear number system, |
| **Year 5** | Short multiplication & division- continued<br>Multiply & divide 3 digit numbers by one-digit number, partitioning, remainders, no remainders | | Area & scaling<br>Compare areas & calculate area of rectangles using standard units | | Calculating with decimal fractions<br>Multiply & divide numbers by 10, 100 & 1000 (measure) | Factors, multiples & primes<br>Find factors & multiples of positive whole numbers, square composite & prime |
| **Year 6** | Fractions - continued | | Converting units<br>convert metric measures | Decimals<br>Fractions, decimals & percentages | Volume<br>Shape (angles/circles/nets) | Position & direction | statistics |

| **Summer Term** using planning from NCETM Curriculum Prioritisation materials (Y3-5) & White Rose (Y6). Mastering Number lesson & Maths Medium Term Plans give further detailed information on maths main lessons & maths fluency. | | | | |
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| **Year 3** | Fractions - Unit fractions<br>Whole, parts, equal parts, notation, representation & division facts | Fractions – Non-unit fractions<br>Equal & unequal parts in a whole, finding whole, place fractions between 0 & 1 on a number line, compare, add up, represent in different ways | Geometry - Parallel & perpendicular<br>Polygons, compound shapes, perpendicular sides, drawing shapes | Recap measure number sense focus |
| **Year 4** | Fractions greater than 1 - continued<br>improper fractions, add & subtract fractions with same denominator | Time<br>Conversion between units of time, am & pm | Symmetry in 2D shapes<br>Line of symmetry, reflected shapes, completing symmetric figures | Division with remainders<br>Division stories, solve division problems with remainders |
| **Year 5** | Factors, multiples & primes - continues<br>Find factors & multiples of positive whole numbers, square composite & prime | Fractions<br>Describe, compare, equivalent, use & apply knowledge of fractions | Converting units<br>Larger to smaller, smaller to larger, fraction to decimal, common conversions, measure problems with variety of units | Angles<br>Use degrees, estimate, use protractor, draw |
| **Year 6** | Ratio<br>Problem solving | Algebra<br>Problem solving | Revision | Themed projects, consolidation & problem solving |