**Maths Long Term Plan**

Place Value, Number and Calculation, Measure, Statistics, Geometry, Fractions, Decimals and Percentages Sticky knowledge

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|  | Year 3 | Year 4 | Year 5  | Year 6  |
| Autumn |  |  |  |  |
| Place Value (3 weeks) | Place Value (4 weeks) | Place value (3 weeks) | Place value (2 weeks) |
| Addition and subtraction (2 weeks) | Addition and subtractions (1 week) |
| Addition and Subtraction (5 weeks) | Addition and Subtraction (3 weeks) | Multiplication and division (3 week) | Multiplication, division and properties of number (4 weeks) |
| Multiplication and Division (4 weeks) | Measurement - Area (1 weeks) | Fractions (4weeks) | Fractions (4 weeks) |
| Multiplication and division (3 weeks) | Measurement – converting units (1 week) |
| Halves, doubles, commutativity, addition and subtraction number facts to 20, purpose of place holder, repeated addition | Addition and subtraction facts to of multiples of 10 and 100, Multiplication tables: 2,3,4,5,8,10. . Dividing by self = 1. Measure to nearest 0.5cm. Measures equivalents (refer to progression grid), roman numerals, Area = inside of shape. | Rounding to nearest 10,100,1000 and 1d.p. Application of TT knowledge to formal calculation and division, Prime, Square and cube numbers | Understand negative numbers, rounding any integer, secure formal methods for 4 operations, know prime numbers to 50, square and cube numbers to 100. Knowing procedures for simplifying, equivalence and addition and subtraction of fractions, equivalent measures (see progression document) |
| Spring | Multiplication and division (3 weeks) | Multiplication and division (3weeks) | Multiplication and division (3 weeks) | Ratio (2 weeks) |
| Measurement - Length and perimeter (3 weeks) | Measurement- Length and Perimeter (2 weeks) | Fractions (2 weeks) | Algebra (2 weeks) |
| Decimals (2 weeks) |
| Fractions (3 weeks) | Fractions (4 weeks) | Decimals and percentages (3 weeks) | Fractions, decimals and percentages (2 weeks) |
| Measurement - Mass and capacity (3 weeks) | Decimals (3 weeks) | Measurement -Perimeter and Area (2 weeks) | Measurement – Area, Perimeter and volume |
|  |  | Statistics (2 weeks) | Statistics (2 weeks) |
| Sharing, grouping, array, numerator, denominator, using a ruler, = means the same, reading different scales, 2, 4s, 5s and 10 xtable, x and dividing by 10 | Mixed number, improper fraction. Common equivalent fractions. <> symbols. All TT to 12x12, Perimeter = outside, multiplying and dividing by 10, 100 | Relationship between fractions, division and times tables knowledge, ¼ =0.25=25% ½=0.5=50% ¾=0.75=75% 1/5=0.2=20%, discrete and continuous data. Area = lxw P= lengths of all sides Correct notation of square metres and centimetres and cubic centimetres, multiplying and dividing by 10.100 and 1000 | Procedure for multiplying and dividing fractions, scale factors, numbers represented by letters, simple equations, pie chart interpretation, know formulaes for calculating area and perimeter and volume, rounding with decimals, multiplying and dividing by 10,100 and 1000 |
| Summer | Fractions (2 weeks) | Decimals (2 weeks) | Geometry - shape (3 weeks) | Geometry - shape (3 weeks) |
| Measurement - Money (2 weeks) | Measurement - Money (2 weeks) | Geometry - position and direction (2 weeks) |
| Measurement - Time (3 weeks) | Measurement - Time (2 weeks) | Geometry - position and direction- (1 weeks) |
| Geometry – shape (2 weeks) | Geometry – shape (2 weeks) | Decimals (3 weeks) |
| Statistics (1 week) | Number - Negative numbers (1 week) | Consolidation and themed projects and problem solving |
| Statistics (2 weeks) | Measurement - converting units (2 weeks) |
| Geometry - position and direction(2weeks) | Measurement - volume (1 week) |
| In addition to other TT knowledge: 3,8 times tables, fractions=division, Time facts (refer to progression grid), 100p =£1, reading scales in 1,2,5,10, understanding pictograms, equivalent fractions to 1/2 | Role of the decimal place and placeholders in decimals. ¼=0.25, ½=0.5, ¾=0.75Time facts (refer to progression grid), reading coordinates in 1 quadrant | Acute, obtuse, right angle, measure equivalence (refer to progression grid), Understand negative numbers, reinforce knowledge: ¼ =0.25=25% ½=0.5=50% ¾=0.75=75% 1/5=0.2=20%, coordinates, reflection, translation |
| Consolidation of key procedures related to number, 4 operations and Fractions, Decimals and Percentages |