**Maths Long Term Plan Year 5**

Lessons will follow the White Rose Plan.

**Topic maths will be incorporated into lessons linked to work in science, geography and history.**

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| **Autumn** | **Spring** | **Summer** |
| **Number:** **Place Value (Week 1-3)**Numbers to 10,000Roman NumeralsRound to nearest 10, 100 and 1,000Numbers to 100,000Compare and order numbers to 100,000Round numbers within 100,000Numbers to a millionCounting in 10s, 100s, 1,000s, 10,000s and 100,000sCompare and order numbers to one millionNegative numbers**Number:** **Addition & Subtraction (Week 4-5)**Add whole numbers with more than 4 digits (column method)Subtract whole numbers with more than 4 digits (column method)Round to estimate and approximateInverse operations (addition and subtraction)Multi-step addition and subtraction problems**Statistics (Week 6-7)**Read and interpret line graphsDraw line graphsUse line graphs to solve problemsRead and interpret tablesTwo-way tablesTimetables**Number:** **Multiplication & Division (Week 8-9)**Multiples FactorsCommon factorsPrime numbersSquare numbersCube numbersMultiply by 10, 100 and 1,000Divide by 10, 100 and 1,000Multiples of 10, 100 and 1,000**Measurement:** **Perimeter and Area Week (10-11)**Measure perimeterCalculate perimeterArea of rectanglesArea of compound shapesArea of irregular shapes**Consolidation & Assessment (Week 12)****PUMA Standardised Test** | **Number:** **Multiplication & Division (Week 1-3)**Multiply 4-digits by 1-digitMultiply 2-digits (area model)Multiply 2-digits by 2-digitsMultiply 3-digits by 2-digitsMultiply 4-digits by 2-digitsDivide 4-digitd by 1-digitDivide with remainders**Number:** **Fractions (Week 4-9)**Equivalent fractionsImproper to mixed fractionsMixed numbers to improper fractionsNumber sequencesCompare and order fractions less than 1Compare and order fractions greater than 1Add and subtract fractionsAdd fractions within 1Add 3 or more fractionsAdd fractionsAdd mixed numbersSubtract fractionsSubtract mixed numbersSubtract- breaking the whole**Number:** **Decimals & Percentages** **(Week 10-11)**Decimals up to 2 d.p. Decimals as fractions (1) Decimals as fractions (2) Understand thousandths Thousandths as decimals Rounding decimals Order and compare decimals Understand percentages Percentages as fractions and decimals Equivalent F.D.P.**Consolidation & Assessment** **(Week 12)****PUMA Standardised Test** | **Number:** **Decimals (Week 1-4)**Adding decimals within 1Subtracting decimals within 1Complements to 1Adding decimals - crossing the wholeAdding decimals with the same number of decimal placesSubtracting decimals with the same number of decimal placesAdding decimals with a different number of decimal placesSubtracting decimals with a different number of decimal placesAdding and subtracting wholes and decimalsDecimal sequencesMultiplying decimals by 10, 100 and 1,000Dividing decimals by 10, 100 and 1,000**Geometry:** **Properties of Shapes (Week 5-7)**Measuring angles in degrees Measuring with a protractor (1) Measuring with a protractor (2) Drawing lines and angles accurately Calculating angles on a straight line Calculating angles around a point Calculating lengths and angles in shapes Regular and irregular polygons Reasoning about 3-D shapes**Geometry:** **Position & Direction (Week 8)**Position in the first quadrant Reflection Reflection with coordinates Translation Translation with coordinates**Measurement:** **Converting Units (Week 9-10)**Kilograms and kilometres Milligrams and millilitres Metric units Imperial units Converting units of time Timetables**Measurement:** **Volume (Week 11)**What is Volume?Compare volumeEstimate volumeEstimate capacity**Consolidation & Assessment (Week 12)****PUMA Standardised Test** |