**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 10,000  Roman Numerals  Round to nearest 10, 100 and 1,000  Numbers to 100,000  Compare and order numbers to 100,000  Round numbers within 100,000  Numbers to a million  Counting in 10s, 100s, 1,000s, 10,000s and 100,000s  Compare and order numbers to one million  Negative 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 approximate  Inverse operations (addition and subtraction)  Multi-step addition and subtraction problems  **Statistics (Week 6-7)**  Read and interpret line graphs  Draw line graphs  Use line graphs to solve problems  Read and interpret tables  Two-way tables  Timetables  **Number:**  **Multiplication & Division (Week 8-9)**  Multiples  Factors  Common factors  Prime numbers  Square numbers  Cube numbers  Multiply by 10, 100 and 1,000  Divide by 10, 100 and 1,000  Multiples of 10, 100 and 1,000  **Measurement:**  **Perimeter and Area Week (10-11)**  Measure perimeter  Calculate perimeter  Area of rectangles  Area of compound shapes  Area of irregular shapes  **Consolidation & Assessment (Week 12)**  **PUMA Standardised Test** | **Number:**  **Multiplication & Division (Week 1-3)**  Multiply 4-digits by 1-digit  Multiply 2-digits (area model)  Multiply 2-digits by 2-digits  Multiply 3-digits by 2-digits  Multiply 4-digits by 2-digits  Divide 4-digitd by 1-digit  Divide with remainders  **Number:**  **Fractions (Week 4-9)**  Equivalent fractions  Improper to mixed fractions  Mixed numbers to improper fractions  Number sequences  Compare and order fractions less than 1  Compare and order fractions greater than 1  Add and subtract fractions  Add fractions within 1  Add 3 or more fractions  Add fractions  Add mixed numbers  Subtract fractions  Subtract mixed numbers  Subtract- 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 1  Subtracting decimals within 1  Complements to 1  Adding decimals - crossing the whole  Adding decimals with the same number of decimal places  Subtracting decimals with the same number of decimal places  Adding decimals with a different number of decimal places  Subtracting decimals with a different number of decimal places  Adding and subtracting wholes and decimals  Decimal sequences  Multiplying decimals by 10, 100 and 1,000  Dividing 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 volume  Estimate volume  Estimate capacity  **Consolidation & Assessment (Week 12)**  **PUMA Standardised Test** |