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|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
| **Aut** | Place Value | Addition and Subtraction | Multiplication and Division A | Fractions A | Consolidation | Assessment Week |
| **Spr** | Multiplication and Division B | Fractions B | Decimals and Percentages | Perimeter and Area | Statistics | Consolidation  | Assessment Week |
| **Sum** | Shape | Position and Direction | Decimals | Negative Numbers | Converting Units | Volume | Consolidation  | Assessment Week |

**Autumn Term:** **Breakdown of small steps across the year: Based on White Rose Maths Scheme of Learning**

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|  | **Autumn 1** | **Autumn 2** |
|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
|  | **Place Value** | **Addition and Subtraction** | **Multiplication and Division**  | **Fractions A** | **Consolidation**  | **Assessment****Week** |
| **Small Steps (WRM)** | Roman numerals to 1,000Numbers to 10,000Numbers to 100,000Numbers to 1,000,000Read and write numbers to 1,000,000 | Powers of 1010/100/1,000/10,000/100,000 more or lessPartition to 1,000,000Number line to 1,000,000Compare and order numbers to 100,000 | Compare and order number to 1,000,000Round to the nearest 10,100, 1,000Round within 100,000Round within 1,000,000 | Mental StrategiesAdd whole numbers with more than 4 digitsSubtract whole numbers with more than 4 digitsRound to check answers | Inverse operation (addition and subtraction)Multi-step addition and subtraction problems Compare calculations Find missing numbers | MultiplesCommon multiplesFactorsCommon factors | Prime NumbersSquare NumbersCube Numbers  | Multiply by 10, 100, 1,000Divide by 10, 100, 1,000Multiples of 10, 100, 1,000 | Find fractions equivalent to a unit fractionFind fractions equivalent to non-unit fractions Recognise equivalent fractions Convert improper fractions to mixed numbers  | Conver mixed numbers to improper fractions Compare fractions less than 1Order fractions less than 1Compare and order fractions greater than 1 | Add and subtract fractions with the same denominator Add fractions within 1Add fractions with total greater than 1Add to a mixed numberAdd two mixed numbers  | Subtract fractions Subtract from a mixed numberSubtract from a mixed number – breaking the whole Subtract two mixed numbers  |  |  |
| **Supporting Resources** | **NCETM Spine**: 1.26 1.27 (negative numbers) | **NCETM Spine**: revisit 1.22 (TP 3 and TP5) and 1.20, 1.21 for written methods. 1.29 (strategies and mental methods as opposed to written. Includes decimals) 1.29 (TP 3 difference) 1.29 (TP 6 estimate, approximate, inverse) 1.28 (multi-step problems) | **NCETM Spine**: 2.21 (factors multiples prime) 2.9 (square numbers) 2.13 (mult divide 10,100,100) 2.19 (10,100,1000) 2.20 (cube numbers) 2.18 (maybe stand alone as equivalence) | **NCETM Spine:** revisit parts of earlier fractions to prepare for topic (3.1, 3.2, 3.3, 3.4) 3.7 (equivalents and simplifying, compare order), 3.8 (add and subtract), 3.5 improper and mixed, 3.6 multiplying |  |  |
| **Vocab** | Place value, digit, value, decimal, whole number, decimal point, thousands, hundreds, tens, ones, units, tenths, hundredths, thousandths, numerical value, expanded form, standard form, rounding, estimation, comparison | Addition, subtraction, sum, difference, addend, subtrahend, minuend, regrouping, carry, borrow, column addition, column subtraction, mental calculation, estimation, rounding,  | Multiplication, division, product, quotient, factor, multiple, dividend, divisor, remainder, array, commutative property, prime number, composite number, factorization | Fraction, numerator, denominator, proper fraction, improper fraction, mixed number, equivalent fractions, simplifying fractions, common denominator, LCD, LCM unit fraction |  |  |

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|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
| **Aut** | Place Value | Addition and Subtraction | Multiplication and Division A | Fractions A | Consolidation | Assessment Week |
| **Spr** | Multiplication and Division B | Fractions B | Decimals and Percentages | Perimeter and Area | Statistics | Consolidation  | Assessment Week |
| **Sum** | Shape | Position and Direction | Decimals | Negative Numbers | Converting Units | Volume | Consolidation  | Assessment Week |

**Spring Term:** **Breakdown of small steps across the year: Based on White Rose Maths Scheme of Learning**

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|  | **Spring 1** | **Spring 2** |
|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
|  | **Multiplication and Division B** | **Fractions B** | **Decimals and Percentages** | **Perimeter and Area** | **Statistics** | **Consolidation**  | **Assessment**  |
| **Small Steps (WRM)** | Multiply up to a 4-digit number by a 1-digit numberMultiply a 2-digit number by a 2-digit number (Area Model)Multiply a 3-digit number by a 2-digit number | Multiply a 4-digit number by a 2-digit numberSolve problems with multiplication Short division Divide a 4-digit number by a 1-digit number | Divide with remainders Efficient division Solve problems with multiplication and division  | Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer  | Calculate a fraction of a quantity Fraction of an amount Find the whole Use fractions as operators  | Decimals up to 2 decimal places Equivalent fractions and decimals (tenths)Equivalent fractions and decimals (hundredths) Equivalent fractions and decimals Thousandths as fractions  | Thousandths as decimals Thousandths on a place value chartOrder and compare decimals (same number of decimal places)Order and compare any decimal with up to 3 decimal places Round to the nearest whole number | Round to 1 decimal placeUnderstand percentages Percentages as fractions Percentages as decimals Equivalent fractions, decimals and percentages  | Perimeter of rectanglesPerimeter of rectilinear shapesPerimeter of polygons | Area of rectangles Area of compound shapes Estimate area | Draw line graphs Read and interpret line graphs | Read and interpret tablesTwo-way tables read and interpret timetables  |  |  |
| **Supporting Resources** | **NCETM Spine**: 2.23 (area model) 2.15 (division) 2.14 (written multiplication) | **NCETM Spine**: revisit parts of earlier fractions to prepare for topic (3.1, 3.2, 3.3, 3.4) 3.7 (equivalents and simplifying, compare order), 3.8 (add and subtract), 3.5 improper and mixed, 3.6 multiplying | **NCETM Spine:** continue from y4 1.23 and 1.24 (1/10, 1/100, 1/000ths) 1.24 (TP 3 compare and order) 3.10 FDP (TP1,TP2,TP4, TP5) | **NCETM Spine**: revisit 2.16 | **NCETM Spine:** some examples in 1.28 and 1.29 |  |  |
| **Vocab** | Multiplication, division, product, quotient, factor, multiple, dividend, divisor, remainder, array, commutative property, prime number, composite number, factorization | Fraction, numerator, denominator, proper fraction, improper fraction, mixed number, equivalent fractions | Decimal, decimal point, place value, tenths, hundredths, thousandths, decimal fraction, decimal notation, decimal place, rounding, percent, percentage, percent symbol,  | Perimeter, area, length, width, measure, radius, diameter, circumference, square area  | Data, statistics, survey, analysis, representation, frequency, bar/line/pictograph, mean, mode, median, range, probability |  |  |

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|  | **Summer 1** | **Summer 2** |
|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
|  | **Shape** | **Position and Direction** | **Decimals** | **Negative Numbers** | **Converting Units** | **Volume** | **Consolidation** | **Assessment****Week** |
| **Small Steps (WRM)** | Understand and use degreesClassify angles Estimate angles | Measure angles up to 180°Draw lines and angles accurately Calculate angles around a point | Calculate angles on a straight lineLengths and angles in shapes Regular and irregular polygons3D shapes  | Read and plot coordinatesProblem solving with coordinatesTranslation  | Translation with coordinatesLines of symmetryReflection in horizontal and vertical lines | Use known facts to add and subtract decimals within 1Compliments to 1Add and subtract decimals across 1 | Add decimals with the same number of decimal placesSubtract decimals with the same number of decimal places Add decimals with different number of decimal places | Subtract decimals with different number of decimal places Efficient strategies for adding and subtracting decimals Decimal sequences Multiply by 10, 100, 1,000 | Understand negative numbers Count through 0 in 1sCount through zero in multiples Compare and order negative numbers Find the difference  | Kilograms and kilometres Millimetres and Millilitres Convert units of length  | Convert between metric and imperial units Convert units of time Calculate with timetables  | Cubic centimetres Compare volume Estimate volumeEstimate capacity  |  |  |
| **Supporting Resources** | **NCETM Spine:** N/A 1.28 (some ideas in TP4) | **NCETM Spine** 1.27 TP 6 | **NCETM Spine:** ref back to 1.23 TP 4 -6 1.24 (TP 4 & 6) 2.19 TP 2 and 2.29 (decimals by 10,100,1000) |  | **NCETM Spine**: (1.24 TP5) | **NCETM Spine**: 2.20 |  |  |
| **Vocab** | Polygon, triangle, quadrilateral, rectangle, square, rhombus, parallelogram, pentagon, hexagon, octagon, circle, radius, diameter, semi-circle, permitter, area, volume, symmetry, congruent | Left, right, up, down, north, south, east, west, forward, backward, clockwise, anticlockwise, coordinates, grid, map, compass, route, navigation  | Place value, tenths, hundredths, thousandths, decimal fraction, decimal notation, ordering, equivalent | Positive, negative, integers, number line | Conversion, metric, imperial, length, distance, mass, weight, capacity, volume, km, m, cm, mm, kg, g, l, ml | Capacity, cubic unit, cm3, base, height, width, depth |  |  |

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|  | **Week 1** | **Week 2** | **Week 3** | **Week 4** | **Week 5** | **Week 6** | **Week 7** | **Week 8** | **Week 9** | **Week 10** | **Week 11** | **Week 12** | **Week 13** | **Week 14** |
| **Aut** | Place Value | Addition and Subtraction | Multiplication and Division A | Fractions A | Consolidation | Assessment Week |
| **Spr** | Multiplication and Division B | Fractions B | Decimals and Percentages | Perimeter and Area | Statistics | Consolidation  | Assessment Week |
| **Sum** | Shape | Position and Direction | Decimals | Negative Numbers | Converting Units | Volume | Consolidation  | Assessment Week |

**Summer Term:** **Breakdown of small steps across the year: Based on White Rose Maths Scheme of Learning**