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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 1,000  Numbers to 10,000  Numbers to 100,000  Numbers to 1,000,000  Read and write numbers to 1,000,000 | Powers of 10  10/100/1,000/10,000/100,000 more or less  Partition to 1,000,000  Number line to 1,000,000  Compare and order numbers to 100,000 | Compare and order number to 1,000,000  Round to the nearest 10,100, 1,000  Round within 100,000  Round within 1,000,000 | | Mental Strategies  Add whole numbers with more than 4 digits  Subtract whole numbers with more than 4 digits  Round to check answers | Inverse operation (addition and subtraction)  Multi-step addition and subtraction problems Compare calculations  Find missing numbers | Multiples  Common multiples  Factors  Common factors | Prime Numbers  Square Numbers  Cube Numbers | Multiply by 10, 100, 1,000  Divide by 10, 100, 1,000  Multiples of 10, 100, 1,000 | Find fractions equivalent to a unit fraction  Find 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 1  Order fractions less than 1  Compare and order fractions greater than 1 | Add and subtract fractions with the same denominator  Add fractions within 1  Add fractions with total greater than 1  Add to a mixed number  Add two mixed numbers | Subtract fractions  Subtract from a mixed number  Subtract 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 number  Multiply 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 number  Solve 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 chart  Order 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 place  Understand percentages  Percentages as fractions  Percentages as decimals Equivalent fractions, decimals and percentages | Perimeter of rectangles  Perimeter of rectilinear shapes  Perimeter of polygons | Area of rectangles  Area of compound shapes  Estimate area | Draw line graphs  Read and interpret line graphs | | Read and interpret tables  Two-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 degrees  Classify angles  Estimate angles | Measure angles up to 180°  Draw lines and angles accurately  Calculate angles around a point | Calculate angles on a straight line  Lengths and angles in shapes  Regular and irregular polygons  3D shapes | | Read and plot coordinates  Problem solving with coordinates  Translation | Translation with coordinates  Lines of symmetry  Reflection in horizontal and vertical lines | | Use known facts to add and subtract decimals within 1  Compliments to 1  Add and subtract decimals across 1 | Add decimals with the same number of decimal places  Subtract 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 1s  Count 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 volume  Estimate 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**