**Thrussington Maths Whole-school Overview: 2022 – 2023 (Adapted from White Rose Maths, taking into account dates for school holidays and assessment weeks.)**

Place Value Calculation Geometry Measure Statistics

Autumn 1

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|  |  | Wk 1 (4 days)  EYFS baseline | Wk 2  EYFS baseline | Wk 3  EYFS baseline | | Wk 4  EYFS baseline | Wk 5  EYFS baseline | Wk 6 -EYFS b.line  Assessment | Wk 7 |
|  | EYFS | Phased entry to school | | | Number – Match and Sort, Compare amounts  Measure, shape and Spatial thinking – Compare size, mass and capacity, Exploring pattern | | | | Consolidation |
| Class One | Years 1 | Place Value (within 10) | | | | | | Addition and Subtraction | |
| Year 2 | Place Value | | | | | Addition and Subtraction | | |
| Class Two | Year 3 | Place Value | | | | Addition and Subtraction | | | |
| Year 4 | Place Value | | | | | Addition and Subtraction | | |
| Class Three | Years 5 | Place Value | | | | Addition and Subtraction | | Multiplication and Division | |
| Year 6 | Place Value | | Four Operations | | | | | |

Autumn 2

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|  |  | Wk 1 | Wk 2 | | Wk 3 | | Wk 4 | | Wk 5 | Wk 6 | Wk 7 | Wk 8 |
|  | EYFS | Number: Representing 1,2,3; Comparing 1,2,3; Composition of 1,2,3  Measure, Shape and Spatial thinking: Circles and Triangles, Positional Language | | | | | Consolidation | | Number: Representing 1 to 5; One more, one less  MS&S thinking: Shapes with 4 sides; Time | | | Consolidation |
| Class One | Years 1 | Addition and Subtraction | | | | Geometry | | Place value (Within 20) | | | | Consolidation |
| Year 2 | Addition and Subtraction | | Geometry | | | | | | Money | |
| Class Two | Year 3 | Add/Subtract | Multiplication and Division | | | | | | | | | Consolidation |
| Year 4 | Area | Multiplication and Division | | | | | | | | | Consolidation |
| Class Three | Years 5 | Multiplication and Division | Fractions (A) | | | | | | | Multiplication and Division | | Consolidation |
| Year 6 | Fractions A | | | Fractions B | | | | Converting units | Ratio | | Consolidation |

Spring 1

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|  |  | Wk 1 (4 days) | Wk 2 | Wk 3 | Wk 4 | Wk 5 | Wk 6  Assessment | Wk 7 |
|  | EYFS | Number: Introducing Zero, Comparing 1 to 5; Composition of 4 and 5  MS&S thinking: Compare Mass; Compare Capacity | | | Consolidation | Number: 6,7 and 8; Making pairs; Combining two groups  MS&S thinking: Length and Height; Time | | |
| Class One | Year 1 | Addition and Subtraction (Within 20) | | | Place Value (Within 50) | | Length and Height | |
| Year 2 | Multiplication and Division | | | | | Length and Height | |
| Class Two | Year 3 | Length and Perimeter | | | Fractions | | | Mass/Capacity |
| Year 4 | Length and Perimeter | | Fractions | | | | Decimals |
| Class Three | Year 5 | Multiplication and Division | Fractions B | | Decimals and Percentages | | | Perimeter and Area |
| Year 6 | Algebra | | Decimals | | Fractions, Decimals and Percentages | | Area, Perimeter and Volume |

Spring 2

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|  |  | Wk 1 | Wk 2 | Wk 3 | Wk 4 | Wk 5 |
|  | EYFS | Number: 9 and 10; Comparing numbers to 10; Bonds to 10  MS&S thinking: 3d shape and pattern | | | Consolidation | |
| Class One | Year 1 | Mass and Volume | | Multiplication and Division | | |
| Year 2 | Mass, Capacity and Temperature | | | Statistics | |
| Class Two | Year 3 | Mass and Capacity | | Fractions | | Consolidation |
| Year 4 | Decimals | | | | Consolidation |
| Class Three | Year 5 | Perimeter and Area | Statistics | | Geometry | |
| Year 6 | Area, Perimeter and Volume | Statistics | | Geometry | |

Summer 1

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|  |  | Wk 1 | Wk 2 | Wk 3  Y2 SATs window | Wk 4  Y2 SATs window | Wk 5 Assessment  Y2 SATs window | Wk 6  Y2 SATs window |
|  | EYFS | Number: Building numbers beyond 10; Counting patterns beyond 10  MS&S thinking: Spatial reasoning – match, rotate, manipulate | | | Number: Adding more; Taking Away  Spatial Reasoning: Compose and decompose | | |
| Class One | Year 1 | Fractions | | Position and Dir. | Place Value | | Money |
| Year 2 | Fractions | | | ESTIMATED YEAR 2 SATs WINDOW | | Position and Dir. \* |
| Class Two | Year 3 | Money |  | Time | | | Consolidation |
| Year 4 | Money | | Time | | Geometry | Consolidation |
| Class Three | Year 5 | Geometry | Position and Direcction | | Decimals | | |
| Year 6 | Geometry | Position & Direction | KS2 SATs | Consolidation through investigation | | |

Summer 2

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|  |  | Wk 1 x-table check | Wk 2 x-table check | Wk 3 x-table check | Wk 4 | | Wk 5 | Wk 6 (3 days) |
|  | EYFS | Number: Doubling; Sharing and Grouping; Even and Odd  MS&S thinking: Visualise and build | | | Number: Deepening understanding of patterns and relationships  MS&S thinking: Mapping | | | |
| Class One | Year 1 | Time | | Consolidation | | | | |
| Year 2 | Time \* | | | Consolidation | | | |
| Class Two | Year 3 | Geometry | | Statistics | | Consolidation | | |
| Year 4 | Geometry | Statistics | Position and Direction | | | Consolidation | |
| Class Three | Year 5 | Negative Numbers | Converting units | | Volume | | Consolidation | |
| Year 6 | Consolidation through investigation | | | | | | |

* The Year 2 SATs will take place before the formal teaching of Position and Direction. Year 2 pupils could look at Position and Direction in Summer 1, week 3 alongside the Year Ones with more work during the consolidation phase of Summer 2. I would recommend visiting Time earlier in the year, possibly during the consolidation phase in Autumn 2 and then regular visiting during the mental starter part of the lesson.

**CLASS ONE – Autumn – Will be added to over the year as it becomes available on White Rose Maths**

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| **Yr 1** | **Place Value (within 10)**  Step 1 Sort objects  Step 2 Count objects  Step 3 Count objects from a larger group  Step 4 Represent objects  Step 5 Recognise numbers as words  Step 6 Count on from any number  Step 7 1 more  Step 8 Count backwards within 10  Step 9 1 less  Step 10 Compare groups by matching  Step 11 Fewer, more, same  Step 12 Less than, greater than, equal to  Step 13 Compare numbers  Step 14 Order objects and numbers  Step 15 The number line | **Addition and Subtraction**  Step 1 Introduce parts and wholes  Step 2 Part-whole model  Step 3 Write number sentences  Step 4 Fact families – addition facts  Step 5 Number bonds within 10  Step 6 Systematic number bonds within 10  Step 7 Number bonds to 10  Step 8 Addition – add together  Step 9 Addition – add more  Step 10 Addition problems  Step 11 Find a part  Step 12 Subtraction – find a part  Step 13 Fact families – the eight facts  Step 14 Subtraction – take away/cross out (How many left?)  Step 15 Take away (How many left?)  Step 16 Subtraction on a number line | **Geometry**  Step 1 Recognise and name 3-D shapes  Step 2 Sort 3-D shapes  Step 3 Recognise and name 2-D shapes  Step 4 Sort 2-D shapes  Step 5 Patterns with 2-D and 3-D shapes | **Place Value (within 20)** |
| **Yr 2** | **Place Value**  Step 1 Numbers to 20  Step 2 Count objects to 100 by making 10s  Step 3 Recognise tens and ones  Step 4 Use a place value chart  Step 5 Partition numbers to 100  Step 6 Write numbers to 100 in words  Step 7 Flexibly partition numbers to 100  Step 8 Write numbers to 100 in expanded form  Step 9 10s on the number line to 100  Step 10 10s and 1s on the number line to 100  Step 11 Estimate numbers on a number line  Step 12 Compare objects  Step 13 Compare numbers  Step 14 Order objects and numbers  Step 15 Count in 2s, 5s and 10s  Step 16 Count in 3s | **Addition and Subtraction**  Step 1 Bonds to 10  Step 2 Fact families - addition and subtraction bonds within 20  Step 3 Related facts  Step 4 Bonds to 100 (tens)  Step 5 Add and subtract 1s  Step 6 Add by making 10  Step 7 Add three 1-digit numbers  Step 8 Add to the next 10  Step 9 Add across a 10  Step 10 Subtract across 10  Step 11 Subtract from a 10  Step 12 Subtract a 1-digit number from a 2-digit number (across a 10)  Step 13 10 more, 10 less  Step 14 Add and subtract 10s  Step 15 Add two 2-digit numbers (not across a 10)  Step 16 Add two 2-digit numbers (across a 10)  Step 17 Subtract two 2-digit numbers (not across a 10)  Step 18 Subtract two 2-digit numbers (across a 10)  Step 19 Mixed addition and subtraction  Step 20 Compare number sentences  Step 21 Missing number problems | **Geometry**  Step 1 Recognise 2-D and 3-D shapes  Step 2 Count sides on 2-D shapes  Step 3 Count vertices on 2-D shapes  Step 4 Draw 2-D shapes  Step 5 Lines of symmetry on shapes  Step 6 Use lines of symmetry to complete shapes  Step 7 Sort 2-D shapes  Step 8 Count faces on 3-D shapes  Step 9 Count edges on 3-D shapes  Step 10 Count vertices on 3-D shapes  Step 11 Sort 3-D shapes  Step 12 Make patterns with 2-D and 3-D shapes | **Money** |

**Class Two – Autumn – more will be added to when available on White Rose Maths**

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| **Year 3** | **Place Value**  Step 1 Represent numbers to 100  Step 2 Partition numbers to 100  Step 3 Number line to 100  Step 4 Hundreds  Step 5 Represent numbers to 1,000  Step 6 Partition numbers to 1,000  Step 7 Flexible partitioning of numbers to 1,000  Step 8 Hundreds, tens and ones  Step 9 Find 1, 10 or 100 more or less  Step 10 Number line to 1,000  Step 11 Estimate on a number line to 1,000  Step 12 Compare numbers to 1,000  Step 13 Order numbers to 1,000  Step 14 Count in 50s | **Addition and Subtraction**  Step 1 Apply number bonds within 10  Step 2 Add and subtract 1s  Step 3 Add and subtract 10s  Step 4 Add and subtract 100s  Step 5 Spot the pattern  Step 6 Add 1s across a 10  Step 7 Add 10s across a 100  Step 8 Subtract 1s across a10  Step 9 Subtract 10s across a 100  Step 10 Make connections  Step 11 Add two numbers (no exchange)  Step 12 Subtract two numbers (no exchange)  Step 13 Add two numbers (across a 10)  Step 14 Add two numbers (across a 100)  Step 15 Subtract two numbers (across a 10)  Step 16 Subtract two numbers (across a 100)  Step 17 Add 2-digit and 3-digit numbers  Step 18 Subtract a 2-digit number from a 3-digit number  Step 19 Complements to 100  Step 20 Estimate answers  Step 21 Inverse operations  Step 22 Make decisions | **Multiplication and Division**  Step 1 Multiplication – equal groups  Step 2 Use arrays  Step 3 Multiples of 2  Step 4 Multiples of 5 and 10  Step 5 Sharing and grouping  Step 6 Multiply by 3  Step 7 Divide by 3  Step 8 The 3 times-table  Step 9 Multiply by 4  Step 10 Divide by 4  Step 11 The 4 times-table  Step 12 Multiply by 8  Step 13 Divide by 8  Step 14 The 8 times-table  Step 15 The 2, 4 and 8 times-tables |  |
| **Year 4** | **Place Value**  Step 1 Represent numbers to 1,000  Step 2 Partition numbers to 1,000  Step 3 Number line to 1,000  Step 4 Thousands  Step 5 Represent numbers to 10,000  Step 6 Partition numbers to 10,000  Step 7 Flexible partitioning of numbers to 10,000  Step 8 Find 1, 10, 100, 1,000 more or less  Step 9 Number line to 10,000  Step 10 Estimate on a number line to 10,000  Step 11 Compare numbers to 10,000  Step 12 Order numbers to 10,000  Step 13 Roman numerals  Step 14 Round to the nearest 10  Step 15 Round to the nearest 100  Step 16 Round to the nearest 1,000  Step 17 Round to the nearest 10, 100 or 1,000 | **Addition and Subtraction**  Step 1 Add and subtract 1s, 10s, 100s and 1,000s  Step 2 Add up to two 4-digit numbers – no exchange  Step 3 Add two 4-digit numbers – one exchange  Step 4 Add two 4-digit numbers – more than one exchange  Step 5 Subtract two 4-digit numbers – no exchange  Step 6 Subtract two 4-digit numbers – one exchange  Step 7 Subtract two 4-digit numbers – more than one exchange  Step 8 Efficient subtraction  Step 9 Estimate answers  Step 10 Checking strategies | **Area**  Step 1 What is area?  Step 2 Count squares  Step 3 Make shapes  Step 4 Compare areas | **Multiplication and Division**  Step 1 Multiples of 3  Step 2 Multiply and divide by 6  Step 3 6 times-table and division facts  Step 4 Multiply and divide by 9  Step 5 9 times-table and division facts  Step 6 The 3, 6 and 9 times-tables  Step 7 Multiply and divide by 7  Step 8 7 times-table and division facts |

**Class Three – Autumn – more will be added to when available on White Rose Maths**

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| **Years 5** | **Place Value**  Step 1 Roman numerals to 1,000  Step 2 Numbers to 10,000  Step 3 Numbers to 100,000  Step 4 Numbers to 1,000,000  Step 5 Read and write numbers to 1,000,000  Step 6 Powers of 10  Step 7 10/100/1,000/10,000/100,000 more or less  Step 8 Partition numbers to 1,000,000  Step 1 Roman numerals to 1,000  Step 2 Numbers to 10,000  Step 3 Numbers to 100,000  Step 4 Numbers to 1,000,000  Step 5 Read and write numbers to 1,000,000  Step 6 Powers of 10  Step 7 10/100/1,000/10,000/100,000 more or less  Step 8 Partition numbers to 1,000,000 | **Addition and Subtraction**  Step 1 Mental strategies  Step 2 Add whole numbers with more than four digits  Step 3 Subtract whole numbers with more than four digits  Step 4 Round to check answers  Step 5 Inverse operations (addition and subtraction)  Step 6 Multi-step addition and subtraction problems  Step 7 Compare calculations  Step 8 Find missing numbers | **Multiplication and Division**  Step 1 Multiples  Step 2 Common multiples  Step 3 Factors  Step 4 Common factors  Step 5 Prime numbers  Step 6 Square numbers  Step 7 Cube numbers  Step 8 Multiply by 10, 100 and 1,000  Step 9 Divide by 10, 100 and 1,000  Step 10 Multiples of 10, 100 and 1,000 | **Fractions A**  Step 1 Find fractions equivalent to a unit fraction  Step 2 Find fractions equivalent to a non-unit fraction  Step 3 Recognise equivalent fractions  Step 4 Convert improper fractions to mixed numbers  Step 5 Convert mixed numbers to improper fractions  Step 6 Compare fractions less than 1  Step 7 Order fractions less than 1  Step 8 Compare and order fractions greater than 1  Step 9 Add and subtract fractions with the same denominator  Step 10 Add fractions within 1  Step 11 Add fractions with total greater than 1  Step 12 Add to a mixed number  Step 13 Add two mixed numbers  Step 14 Subtract fractions  Step 15 Subtract from a mixed number  Step 16 Subtract from a mixed number – breaking the whole  Step 17 Subtract two mixed numbers | **Multiplication and Division** |
| **Year 6** | **Place Value**  Step 1 Numbers to 1,000,000  Step 2 Numbers to 10,000,000  Step 3 Read and write numbers to 10,000,000  Step 4 Powers of 10  Step 5 Number line to 10,000,000  Step 6 Compare and order any integers  Step 7 Round any integer  Step 8 Negative numbers | **Four Operations**  Step 1 Add and subtract integers  Step 2 Common factors  Step 3 Common multiples  Step 4 Rules of divisibility  Step 5 Primes to 100  Step 6 Square and cube numbers  Step 7 Multiply up to a 4-digit number by a 2-digit number  Step 8 Solve problems with multiplication  Step 9 Short division  Step 10 Division using factors  Step 11 Introduction to long division  Step 12 Long division with remainders  Step 13 Solve problems with division  Step 14 Solve multi-step problems  Step 15 Order of operations  Step 16 Mental calculations and estimation  Step 17 Reason from known facts | | **Fractions A**  Step 1 Equivalent fractions and simplifying  Step 2 Equivalent fractions on a number line  Step 3 Compare and order (denominator)  Step 4 Compare and order (numerator)  Step 5 Add and subtract simple fractions  Step 6 Add and subtract any two fractions  Step 7 Add mixed numbers  Step 8 Subtract mixed numbers  Step 9 Multi-step problems  **Fractions B**  Step 1 Multiply fractions by integers  Step 2 Multiply fractions by fractions  Step 3 Divide a fraction by an integer  Step 4 Divide any fraction by an integer  Step 5 Mixed questions with fractions  Step 6 Fraction of an amount  Step 7 Fraction of an amount – find the whole | **Converting Units**  Step 1 Metric measures  Step 2 Convert metric measures  Step 3 Calculate with metric measures  Step 4 Miles and kilometres  Step 5 Imperial measures |
| **Ratio** |