**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 2EYFS baseline | Wk 3EYFS baseline | Wk 4EYFS baseline | Wk 5EYFS baseline | Wk 6 -EYFS b.lineAssessment  | Wk 7 |
|  | EYFS | Phased entry to school | Number – Match and Sort, Compare amountsMeasure, 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 1,2,3Measure, Shape and Spatial thinking: Circles and Triangles, Positional Language | Consolidation | Number: Representing 1 to 5; One more, one lessMS&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 6Assessment | Wk 7 |
|  | EYFS | Number: Introducing Zero, Comparing 1 to 5; Composition of 4 and 5MS&S thinking: Compare Mass; Compare Capacity | Consolidation | Number: 6,7 and 8; Making pairs; Combining two groupsMS&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 10MS&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 3Y2 SATs window | Wk 4Y2 SATs window | Wk 5 AssessmentY2 SATs window | Wk 6Y2 SATs window |
|  | EYFS | Number: Building numbers beyond 10; Counting patterns beyond 10MS&S thinking: Spatial reasoning – match, rotate, manipulate | Number: Adding more; Taking AwaySpatial 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 OddMS&S thinking: Visualise and build | Number: Deepening understanding of patterns and relationshipsMS&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 objectsStep 2 Count objectsStep 3 Count objects from a larger groupStep 4 Represent objectsStep 5 Recognise numbers as wordsStep 6 Count on from any numberStep 7 1 moreStep 8 Count backwards within 10Step 9 1 lessStep 10 Compare groups by matchingStep 11 Fewer, more, sameStep 12 Less than, greater than, equal toStep 13 Compare numbersStep 14 Order objects and numbersStep 15 The number line | **Addition and Subtraction**Step 1 Introduce parts and wholesStep 2 Part-whole modelStep 3 Write number sentencesStep 4 Fact families – addition factsStep 5 Number bonds within 10Step 6 Systematic number bonds within 10Step 7 Number bonds to 10Step 8 Addition – add togetherStep 9 Addition – add moreStep 10 Addition problemsStep 11 Find a partStep 12 Subtraction – find a partStep 13 Fact families – the eight factsStep 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 shapesStep 2 Sort 3-D shapesStep 3 Recognise and name 2-D shapesStep 4 Sort 2-D shapesStep 5 Patterns with 2-D and 3-D shapes | **Place Value (within 20)** |
| **Yr 2** | **Place Value**Step 1 Numbers to 20Step 2 Count objects to 100 by making 10sStep 3 Recognise tens and onesStep 4 Use a place value chartStep 5 Partition numbers to 100Step 6 Write numbers to 100 in wordsStep 7 Flexibly partition numbers to 100Step 8 Write numbers to 100 in expanded formStep 9 10s on the number line to 100Step 10 10s and 1s on the number line to 100Step 11 Estimate numbers on a number lineStep 12 Compare objectsStep 13 Compare numbersStep 14 Order objects and numbersStep 15 Count in 2s, 5s and 10sStep 16 Count in 3s | **Addition and Subtraction**Step 1 Bonds to 10Step 2 Fact families - addition and subtraction bonds within 20Step 3 Related factsStep 4 Bonds to 100 (tens)Step 5 Add and subtract 1sStep 6 Add by making 10Step 7 Add three 1-digit numbersStep 8 Add to the next 10Step 9 Add across a 10Step 10 Subtract across 10Step 11 Subtract from a 10Step 12 Subtract a 1-digit number from a 2-digit number (across a 10)Step 13 10 more, 10 lessStep 14 Add and subtract 10sStep 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 subtractionStep 20 Compare number sentencesStep 21 Missing number problems | **Geometry**Step 1 Recognise 2-D and 3-D shapesStep 2 Count sides on 2-D shapesStep 3 Count vertices on 2-D shapesStep 4 Draw 2-D shapesStep 5 Lines of symmetry on shapesStep 6 Use lines of symmetry to complete shapesStep 7 Sort 2-D shapesStep 8 Count faces on 3-D shapesStep 9 Count edges on 3-D shapesStep 10 Count vertices on 3-D shapesStep 11 Sort 3-D shapesStep 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 100Step 2 Partition numbers to 100Step 3 Number line to 100Step 4 HundredsStep 5 Represent numbers to 1,000Step 6 Partition numbers to 1,000Step 7 Flexible partitioning of numbers to 1,000Step 8 Hundreds, tens and onesStep 9 Find 1, 10 or 100 more or lessStep 10 Number line to 1,000Step 11 Estimate on a number line to 1,000Step 12 Compare numbers to 1,000Step 13 Order numbers to 1,000Step 14 Count in 50s | **Addition and Subtraction**Step 1 Apply number bonds within 10Step 2 Add and subtract 1sStep 3 Add and subtract 10sStep 4 Add and subtract 100sStep 5 Spot the patternStep 6 Add 1s across a 10Step 7 Add 10s across a 100Step 8 Subtract 1s across a10Step 9 Subtract 10s across a 100Step 10 Make connectionsStep 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 numbersStep 18 Subtract a 2-digit number from a 3-digit numberStep 19 Complements to 100Step 20 Estimate answersStep 21 Inverse operationsStep 22 Make decisions | **Multiplication and Division**Step 1 Multiplication – equal groupsStep 2 Use arraysStep 3 Multiples of 2Step 4 Multiples of 5 and 10Step 5 Sharing and groupingStep 6 Multiply by 3Step 7 Divide by 3Step 8 The 3 times-tableStep 9 Multiply by 4Step 10 Divide by 4Step 11 The 4 times-tableStep 12 Multiply by 8Step 13 Divide by 8Step 14 The 8 times-tableStep 15 The 2, 4 and 8 times-tables |  |
| **Year 4** | **Place Value**Step 1 Represent numbers to 1,000Step 2 Partition numbers to 1,000Step 3 Number line to 1,000Step 4 ThousandsStep 5 Represent numbers to 10,000Step 6 Partition numbers to 10,000Step 7 Flexible partitioning of numbers to 10,000Step 8 Find 1, 10, 100, 1,000 more or lessStep 9 Number line to 10,000Step 10 Estimate on a number line to 10,000Step 11 Compare numbers to 10,000Step 12 Order numbers to 10,000Step 13 Roman numeralsStep 14 Round to the nearest 10Step 15 Round to the nearest 100Step 16 Round to the nearest 1,000Step 17 Round to the nearest 10, 100 or 1,000 | **Addition and Subtraction**Step 1 Add and subtract 1s, 10s, 100s and 1,000sStep 2 Add up to two 4-digit numbers – no exchangeStep 3 Add two 4-digit numbers – one exchangeStep 4 Add two 4-digit numbers – more than one exchangeStep 5 Subtract two 4-digit numbers – no exchangeStep 6 Subtract two 4-digit numbers – one exchangeStep 7 Subtract two 4-digit numbers – more than one exchangeStep 8 Efficient subtractionStep 9 Estimate answersStep 10 Checking strategies | **Area**Step 1 What is area?Step 2 Count squaresStep 3 Make shapesStep 4 Compare areas | **Multiplication and Division**Step 1 Multiples of 3Step 2 Multiply and divide by 6Step 3 6 times-table and division factsStep 4 Multiply and divide by 9Step 5 9 times-table and division factsStep 6 The 3, 6 and 9 times-tablesStep 7 Multiply and divide by 7Step 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 1,000Step 2 Numbers to 10,000Step 3 Numbers to 100,000Step 4 Numbers to 1,000,000Step 5 Read and write numbers to 1,000,000Step 6 Powers of 10Step 7 10/100/1,000/10,000/100,000 more or lessStep 8 Partition numbers to 1,000,000Step 1 Roman numerals to 1,000Step 2 Numbers to 10,000Step 3 Numbers to 100,000Step 4 Numbers to 1,000,000Step 5 Read and write numbers to 1,000,000Step 6 Powers of 10Step 7 10/100/1,000/10,000/100,000 more or lessStep 8 Partition numbers to 1,000,000 | **Addition and Subtraction**Step 1 Mental strategiesStep 2 Add whole numbers with more than four digitsStep 3 Subtract whole numbers with more than four digitsStep 4 Round to check answersStep 5 Inverse operations (addition and subtraction)Step 6 Multi-step addition and subtraction problemsStep 7 Compare calculationsStep 8 Find missing numbers | **Multiplication and Division**Step 1 MultiplesStep 2 Common multiplesStep 3 FactorsStep 4 Common factorsStep 5 Prime numbersStep 6 Square numbersStep 7 Cube numbersStep 8 Multiply by 10, 100 and 1,000Step 9 Divide by 10, 100 and 1,000Step 10 Multiples of 10, 100 and 1,000 | **Fractions A**Step 1 Find fractions equivalent to a unit fractionStep 2 Find fractions equivalent to a non-unit fractionStep 3 Recognise equivalent fractionsStep 4 Convert improper fractions to mixed numbersStep 5 Convert mixed numbers to improper fractionsStep 6 Compare fractions less than 1Step 7 Order fractions less than 1Step 8 Compare and order fractions greater than 1Step 9 Add and subtract fractions with the same denominatorStep 10 Add fractions within 1Step 11 Add fractions with total greater than 1Step 12 Add to a mixed numberStep 13 Add two mixed numbersStep 14 Subtract fractionsStep 15 Subtract from a mixed numberStep 16 Subtract from a mixed number – breaking the wholeStep 17 Subtract two mixed numbers | **Multiplication and Division** |
| **Year 6** | **Place Value**Step 1 Numbers to 1,000,000Step 2 Numbers to 10,000,000Step 3 Read and write numbers to 10,000,000Step 4 Powers of 10Step 5 Number line to 10,000,000Step 6 Compare and order any integersStep 7 Round any integerStep 8 Negative numbers | **Four Operations**Step 1 Add and subtract integersStep 2 Common factorsStep 3 Common multiplesStep 4 Rules of divisibilityStep 5 Primes to 100Step 6 Square and cube numbersStep 7 Multiply up to a 4-digit number by a 2-digit numberStep 8 Solve problems with multiplicationStep 9 Short divisionStep 10 Division using factorsStep 11 Introduction to long divisionStep 12 Long division with remaindersStep 13 Solve problems with divisionStep 14 Solve multi-step problemsStep 15 Order of operationsStep 16 Mental calculations and estimationStep 17 Reason from known facts | **Fractions A**Step 1 Equivalent fractions and simplifyingStep 2 Equivalent fractions on a number lineStep 3 Compare and order (denominator)Step 4 Compare and order (numerator)Step 5 Add and subtract simple fractionsStep 6 Add and subtract any two fractionsStep 7 Add mixed numbersStep 8 Subtract mixed numbersStep 9 Multi-step problems**Fractions B**Step 1 Multiply fractions by integersStep 2 Multiply fractions by fractionsStep 3 Divide a fraction by an integerStep 4 Divide any fraction by an integerStep 5 Mixed questions with fractionsStep 6 Fraction of an amountStep 7 Fraction of an amount – find the whole | **Converting Units**Step 1 Metric measuresStep 2 Convert metric measuresStep 3 Calculate with metric measuresStep 4 Miles and kilometresStep 5 Imperial measures |
| **Ratio** |