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

		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

		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

		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

		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

		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

		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

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	**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)	**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	**Money**

	Step 15 Count in 2s, 5s and 10s Step 16 Count in 3s	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	Step 11 Sort 3-D shapes Step 12 Make patterns with 2-D and 3-D shapes	

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

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	**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	**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 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	Step 7 Subtract two 4-digit numbers – more than one exchange Step 8 Efficient subtraction Step 9 Estimate answers Step 10 Checking strategies		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

Years 5	**Place Value**	**Addition and Subtraction**	**Multiplication and Division**	**Fractions A**	**Multiplication and Division**
	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 1 Mental strategies Step 2 Add whole numbers with more than four digits Step 3 Subtract whole numbers with more than four digits	Step 1 Multiples Step 2 Common multiples Step 3 Factors Step 4 Common factors Step 5 Prime numbers Step 6 Square numbers	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 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	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	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	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	
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		**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	**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

		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	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	**Ratio**