Mathematics Curriculum Map

Tudor Grange Primary Academy
Yew Tree

EYFS	0 – 3 Preschool	3 – 4 EYFS 1	Reception EYFS 2	Links to KS1 Curriculum
Number	Developing natural interest in quantities including: Taking part in finger rhymes with numbers Developing counting like behaviours such as making sounds, pointing or saying some numbers in sequence Counting in everyday context, sometimes skipping numbers Sometimes responding accurately when asked to give one or two items. Comparing amounts using language: lots, more, same. Reacts to changes of amount when those amounts are significant (more than double) Begins to notice numerals in the environment.	Deep understanding of number to 5 including: Using number names in in rhymes and songs and to identify how many? Counting a set of objects (regular or irregular) by saying one number name for each object in order(the one-to-one principle) Knowing that the last number said is the sets total (the cardinal principle) Linking numerals and amounts to 5. Compare quantities using language: more than, fewer than Fast recognition of up to 3 objects without counting (subtilising) Experiments with their own symbols and marks as well as numerals up to 5. Solves real world mathematical problems with numbers up to 5.	Deep understanding of number to 10 including: Counting actions and sounds or objects which cannot be moved. Counting out up to 10 objects from a large group. Linking numerals and amounts to 10. Estimating how many and checking by counting. Shows awareness that numbers are composed of smaller numbers, exploring partitioning in different ways. Adding and taking away single digit numbers and counting two groups to find the total. Using the correct mathematical language when adding and taking away Automatically recalling number bonds to 5 (including subtraction facts) and some number bonds to 10, including double facts. Fast recognition of up to 5 objects without counting (subtilising)	**Number and Place Value** Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to 100 in numerals, count in multiples of twos, fives and tens. Given a number, identify one more and one less. Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least. Read and write numbers from 1 to 20 in numerals and words. **Addition and Subtraction** Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Represent and use number bonds and related subtraction facts within 20.

Mathematics
Curriculum Map

Tudor Grange Primary Academy
Yew Tree

			Explores and work out mathematical problems, using signs and strategies of their own choice, including (when appropriate) standard numerals, tallies and "+" or "-" Uses number facts to solve mathematical problems.	Add and subtract one-digit and two-digit numbers to 20, including zero. Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as 7 = [] - 9. **Multiplication and Division** Solve one-step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher.
	ELG: Number Children at the expected level of development will: - Have a deep understanding of number to 10, including the composition of each number; - Subitise (recognise quantities without counting) up to 5; - Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts.			

Mathematics Curriculum Map

Tudor Grange Primary Academy Yew Tree

Numerical Patterns	Notices patterns and arranges things in patterns. Completes inset puzzles.	Counts beyond 5, forwards and backwards. Recognises numerals to 5 and recites numbers beyond 5. Compares amounts, recognising when there is more, less or the same	Counts beyond 10 (on and back) spotting patterns, talking about them and representing them. Reads, sequences and forms numerals correctly. Uses mathematical language to compa two sets of objects, identifying how many more/less there are when comparing amounts. Identifies odd and even numbers, double facts and can split a group in ha and share a set of objects.	**Number and Place Value** (See Above)
	ELG: Numerical Patterns Children at the expected level of development will: - Verbally count beyond 20, recognising the pattern of the counting system; - Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; - Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.			
Spatial Awareness, Pattern, Shape, Space and Measures	Spatial Awareness: Responds to some spatial and positional language. Begins to remember their way around familiar environments. Explores how things look from different viewpoints including things that are near or far away. Shape: Chooses puzzle pieces and tries to fit them in. Recognises that two objects have the same shape.	Spatial Awareness: Responds to and uses language of position and direction. Predicts, moves and rotates objects to fit the space or create the shape they would like. Shape: Responds to both informal language and common shape names, showing awareness of their similarities and differences.	Spatial Awareness: Uses spatial language (directions, relative terms and viewpoints). Turns and flips objects in order to make shapes fit and create models; predicting and visualising how they will look. Makes simple maps of familiar and imaginative environments, with landmarks. Shape:	**Position and Direction** Describe position, directions and movements, including half, quarter and three-quarter turns. **Shape** Recognise and name common 2D and 3D shapes, including circles, triangles, rectangles ((including squares), pyramids, spheres and cuboids (including cubes).

Mathematics
Curriculum Map

Makes simple constructions. Pattern: Joins in and anticipates repeated sound and action patterns. Is interested in what happens next using the pattern of everyday routines. Measures: Explores differences in size, length, weight and capacity. Understands some talk about immediate past and future and anticipates times of the day such as mealtimes or home time.	Partitions and combines shapes to make new shapes with 2D and 3D shapes. Chooses items based on their shape which are appropriate for the purpose. Pattern: Explores and adds to simple linear patterns of two or three repeating items. Creates their own spatial patterns showing some organisation or regularity. Measures: In meaningful contexts, finds the longer or shorter, heavier or lighter and more/less full of two items. Recalls a sequence of events in everyday life and stories.	Uses informal language and analogies as well as mathematical terms to describe shapes. Composes and decomposes shapes, learning which shapes combine to make other shapes. Makes models of increasing complexity, selecting blocks needed, solving problems and visualising what they will build. Pattern: Spots patterns in the environment, beginning to identify the pattern "rule". Chooses familiar objects to create and recreate repeating patterns beyond AB patterns and begins to identify the unit of repeat. Measures: Solves problems involving prediction and discussion of comparisons of length, weight or capacity using measuring tools. Orders and sequences events using everyday language related to time.	**Measurement** Compare, describe and solve practical problems for: lengths and heights (long/short, longer/shorter, tall/short, double/half) mass or weight (heavy/light, heavier than, lighter than) capacity/volume (full/empty, more than, less than, quarter) time (quicker, slower, earlier, later) Measure and begin to record: lengths and heights mass/weight capacity and volume time (hours, minutes, seconds) Recognise and know the value of different denominations of coins and notes. Sequence events in chronological order using language, such as before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening. Recognise and use language relating to dates, including days of the week, weeks, months and years.

Mathematics Curriculum Map

				Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times.
	Statutory Educational Programme: **Mathematics** In addition, it is important that the curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes.			

Mathematics Curriculum Map

Tudor Grange Primary Academy
Yew Tree

Year 1	Autumn 1 (1.1)	Autumn 2 (1.2)	Spring 1 (1.3)	Spring 2 (1.4)	Summer 1 (1.5)	Summer 2 (1.6)
National Curriculum			Year 1 Programme of Study			
Year 1	Number: Place Value (within 10) Number: Addition and Subtraction (within 10)	Number: Addition and Subtraction Geometry: Shape	Number: Place Value (within 20) Number: Addition and Subtraction (within 20)	Number: Place Value (within 50) Measurement: Length and Height Measurement: Mass and Volume	Number: Multiplication and Division Number: Fractions Geometry: Position and Direction	Number: Place Value (within 100) Measurement: Money Measurement: Time
Knowledge	Sort objects and count objects. Represent objects. Recognise numbers as words. Count on from any number. 1 more / 1 less. Count backwards within 10. Comparing groups by matching. Fewer, more, same. Less than, greater than, equal to. Compare numbers. Order objects and numbers.	Addition – add together. Addition – add more. Solve addition problems. Subtraction – find a part. Fact families – the eight facts. Subtraction by taking away/crossing out. Take away – how many left? Subtraction using a number line. Add or subtract 1 or 2. Recognise and name 3D shapes. Sort 3D shapes.	Count within 20 Understand numbers up to 20. Identify 1 more/ 1 less. Represent number lines to 20. Estimate numbers on a number line to 20. Compare numbers to 20. Order numbers to 20. Add by counting within 20. Find and make number bonds to 20. Recognise doubles and near doubles. Subtraction by counting back.	Count from 20 – 50. Count by making groups of 10. Partitioning tens and ones. Using a number line to 50. 1 more/1 less within 50. Compare lengths and heights. Measure length using objects. Measure length in centimetres. Heavier / Lighter. Measure and compare mass.	Count in 2s, 5s, 10s. Recognise equal groups. Add equal groups. Make arrays. Make doubles. Make equal groups by grouping and sharing. Recognise a half of an object or shape. Recognise and find half of a quantity or shape. Recognise and find a quarter of a quantity or shape. Describe turns. Describe position - left, right, forwards,	Count from 50 to 100. Partition tens and ones within 100. Count in tens to 100. Compare numbers with the same number of tens. Compare any two numbers. Unitising. Recognise coins. Recognise notes. Count in coins. Before and after. Days of the week. Months of the year. Hours, minutes and seconds.

Mathematics
Curriculum Map

	Introduce parts and wholes and understand part-whole models. Write number sentences. Fact families (within 10). Systematic number bonds within 10.	Recognise and name 2D shapes. Sort 2D shapes. Patterns with 2D and 3D shapes.	Finding the difference. Solve missing number problems.	Full or empty. Compare and measure volume. Measure and compare capacity.	backwards, above and below. Ordinal numbers.	Tell the time to the hour and half hour.
Assessment	End of block assessment: Place Value	End of block assessment: Addition and Subtraction End of block assessment: Shape	End of block assessment: Place Value End of Block assessment: Addition and Subtraction	End of block assessment: Place Value End of block assessment: Length and Height End of block assessment: Mass and Volume	End of block assessment: Multiplication and Division End of block assessment: Fractions End of block assessment: Position and Direction	End of block assessment: Place Value End of block assessment: Money End of block assessment: Time
Enriching Experiences	Reasoning Advent Calendar NSPCC Number Day					
Interleaved Knowledge	Flashback 4 Mastering Number Daily fluency					

Mathematics
Curriculum Map

Tudor Grange Primary Academy
Yew Tree

Year 2	Autumn 1 (2.1)	Autumn 2 (2.2)	Spring 1 (2.3)	Spring 2 (2.4)	Summer 1 (2.5)	Summer 2 (2.6)
National Curriculum	Year 2 Programme of Study					
Year 2	Number: Place Value Number: Addition and Subtraction	Number: Addition and Subtraction Geometry: Shape	Measurement: Money Number: Multiplication and Division	Number: Multiplication and Division Measurement: Length and Height Measurement: Mass, Capacity and Temperature	Number: Fractions Measurement: Time	Statistics Geometry: Position and Direction
Knowledge	Numbers to 20. Count objects to 100 by making 10s. Recognise tens and ones. Use a place value chart. Partition numbers to 100. Write numbers to 100 in words. Flexibly partition numbers to 100. Write numbers to 100 in expanded form. Use a number line. Compare objects and numbers.	Add three 1-digit numbers. Add to the next 10. Add across 10. Subtract across 10. Subtract from a 10. Subtract a 1-digit number from a 2-digit number. Finding 10 more, 10 less. Add and subtract two 2-digit numbers. Compare number sentences. Recognise 2D and 3D shapes.	Count money in pounds and pence. Choose notes and coins. Make the same amount. Compare amounts of money. Calculate with money. Make a pound. Find change. Solve two-step problems. Recognise and make equal groups. Add equal groups.	Odd and even numbers. 10x multiplication facts. Divide by 10. 5x multiplication facts. Divide by 5. Measure in centimetres and metres. Compare lengths and heights. Order lengths and heights. Compare mass.	Recognise equal and unequal parts. Recognise and find a half. Recognise and find a quarter. Recognise and find a third. Find the whole. Non-unit fractions. Recognise the equivalence of a half and two quarters. Recognise and find three quarters. Count in fractions up to a whole. O'clock and half past. Quarter past and quarter to.	Make tally charts. Interpret block diagrams. Draw and interpret pictograms (1-1). Draw and interpret pictograms (2, 5 and 10). Use language of position. Describe movement. Describe turns. Make shape patterns with turns.

Mathematics Curriculum Map

	Order objects and numbers. Count in 2s, 5s and 10s. Count in 3s. Know number bonds within 10. Recall number bonds within 100. Add and subtract 1s. Add by making 10.	Count sides and vertices on 2D shapes. Draw 2D shapes. Recognise and use lines of symmetry on 2D shapes. Sort 2D shapes. Count faces, edges and vertices on 3D shapes. Sort 3D shapes. Make patterns with 2D and 3D shapes.	Recognise the multiplication symbol. Use arrays. Make equal groups by sharing. Make equal groups by grouping. 2x multiplication facts. Divide by 2. Doubling and halving.	Measure mass in grams and kilograms. Compare volume and capacity. Measure in millimetres and litres. Solve problems involving the four operations. Temperature.	Tell the time past the hour. Tell the time to the hour. Tell the time to 5 minutes. Minutes in an hour. Know hours in a day.	
Assessment	End of block assessment: Place Value	End of block assessment: Addition and Subtraction End of block assessment: Shape	End of block assessment: Money	End of block assessment: Multiplication and Division End of block assessment: Measurement	End of block assessment: Fractions End of block assessment: Time	End of block assessment: Statistics End of block assessment: Position and Direction
Enriching Experiences	England Rocks TTR Reasoning Advent Calendar NSPCC Number Day					
Interleaved Knowledge	Flashback 4 Mastering Number Daily fluency					

Mathematics Curriculum Map

Tudor Grange Primary Academy Yew Tree

Year 3	Autumn 1 (3.1)	Autumn 2 (3.2)	Spring 1 (3.3)	Spring 2 (3.4)	Summer 1 (3.5)	Summer 2 (3.6)
National Curriculum	Year 3 Programme of Study					
Year 3	Number: Place Value Number: Addition and Subtraction	Number: Addition and Subtraction Number: Multiplication and Division	Number: Multiplication and Division Measurement: Length and Perimeter	Number: Fractions Measurement: Mass and Capacity	Number: Fractions Measurement: Money Measurement: Time	Measurement: Time Geometry: Shape Statistics
Knowledge	Represent numbers to 100. Partition numbers to 100. Number line to 100. Represent numbers to 1000. Partition numbers to 1000. Flexible partition of numbers to 1000. Find 1, 10, 100 more or less. Estimate numbers on a number line to 1000. Compare numbers to 1000. Order numbers to 1000. Count in 50s.	Make connections. Add two numbers (no exchange). Subtract two numbers (no exchange). Add two numbers (across a 10). Add two numbers (across a 100). Subtract two numbers (across 10). Subtract two numbers (across 100). Add 2-digit and 3-digit numbers. Subtract a 2-digit number from a 3-digit number. Complements to 100. Use the inverse.	Multiples of 10. Related calculations. Multiply a 2-digit number by a 1-digit number (no exchange). Multiply a 2-digit number by a 1-digit number (with exchange). Divide a 2-digit number by a 1-digit number (no exchange). Divide a 2-digit number by a 1-digit number (flexible partitioning). Scaling. How many ways? Measure in metres and centimetres.	Understand the denominators of unit fractions. Compare and order fractions. Understand the whole. Compare and order non-unit fractions. Fractions and scales. Fractions on a number line. Count in fractions on a number line. Identify equivalent fractions on a number line. Equivalent fractions as bar models. Use scales. Measure mass in kilograms and grams.	Add and subtract fractions. Partition the whole. Unit fractions of a set of objects. Non-unit fractions of a set of objects. Reasoning with fractions of an amount. Pounds and pence. Convert pounds and pence. Add and subtract money. Find change. Roman numerals to 12. Tell the time to 5 minutes.	Days and hours. Hours and minutes. Minutes and seconds. Units of time. Solve problems with time. Turns and angles. Right angles. Compare angles. Measure and draw accurately. Horizontal and vertical. Perpendicular and parallel. Recognise and describe 2D shapes. Draw polygons. Recognise and describe 3D shapes. Make 3D shapes.

Mathematics
Curriculum Map

Tudor Grange Primary Academy
Yew Tree

	Apply number bonds within 10. Add and subtract 1s, 10s and 100s. Identify patterns. Add 1s across 10. Add 1s across 100. Subtract 1s across 10. Subtract 1s across 100.	Identify equal groups. Use arrays. Multiples of 2, 5 and 10. Sharing and grouping. 3x multiplication facts. 4x multiplication facts. 8x multiplication facts. Multiply and divide by 3,4 and 8. 2x, 4x and 8x times tables.	Measure in millimetres. Metres, centimetres and millimetres. Equivalent lengths. Compare lengths. Add lengths. Subtract lengths. What is perimeter? Measure and calculate perimeter.	Equivalent masses. Compare mass. Add and subtract mass. Measure capacity and volume in litres and millimetres. Find equivalent capacities and volumes. Compare capacity and volume. Add and subtract capacity and volume.	Tell the time to the minute. Read the time on a digital clock. Use am and pm. Years, months and days.	Interpret pictograms. Draw pictograms. Interpret bar charts. Draw bar charts. Collect and represent data. Two-way tables.
Assessment	End of block assessment: Place Value	End of block assessment: Addition and Subtraction End of block assessment: Multiplication and Division	End of block assessment: Place Value End of Block assessment: Addition and Subtraction	End of block assessment: Place Value End of block assessment: Length and Height End of block assessment: Mass and Volume	End of block assessment: Multiplication and Division End of block assessment: Fractions End of block assessment: Position and Direction	End of block assessment: Place Value End of block assessment: Money End of block assessment: Time
Enriching Experiences	England Rocks TTR Advent CalenBAR NSPCC Number Day					
Interleaved Knowledge	Flashback 4 Daily fluency					

Mathematics
Curriculum Map

Tudor Grange Primary Academy
Yew Tree

Year 4	Autumn 1 (4.1)	Autumn 2 (4.2)	Spring 1 (4.3)	Spring 2 (4.4)	Summer 1 (4.5)	Summer 2 (4.6)
National Curriculum						
Year 4	Number: Place Value Number: Addition and Subtraction	Measurement: Area Number: Multiplication and Division	Number: Multiplication and Division Measurement: Length and Perimeter	Number: Fractions Number: Decimals	Number: Decimals Measurement: Money Measurement: Time	Geometry: Shape Statistics Geometry: Position and Direction
Knowledge	Represent numbers to 1000. Partition numbers to 1000. Number line to 1,000. Represent and partition numbers to 10,000. Flexible partitioning of numbers to 10,000. Find 1, 10, 100, 1000 more or less. Estimate on a number line to 10,000. Compare and order numbers to 10,000. Roman numerals. Round to the nearest 10, 100, 1000. Add and subtract 1s, 10s, 100s and 1000s.	What is area? Count squares. Make shapes. Compare areas. Multiples of 3. Multiply and divide by 6. 6 times-tables and division facts. Multiply and divide by 9. 9 times-tables and division facts. The 3, 6 and 9 times-tables. Multiply and divide by 7. 7 times-table and division facts. 11 times-table and division facts.	Identify and use factor pairs. Multiply by 10. Multiply by 100. Divide by 10. Divide by 100. Recall related facts. Informal written methods for multiplication. Multiply a 2-digit number by a 1-digit number. Multiply a 3-digit number by a 1-digit number. Divide a 2-digit number by a 1-digit number. Solve correspondence problems. Use efficient multiplication.	Understand the whole. Count beyond 1. Partition a mixed number. Number lines with mixed numbers. Compare and order mixed numbers. Understand improper fractions. Convert mixed numbers to improper fractions. Convert improper fractions to mixed numbers. Find equivalent fractions on a number line. Add two or more fractions.	Make a whole with tenths. Make a whole with hundredths. Partition decimals. Compare decimals. Order decimals. Round to the nearest whole number. Halves and quarters as decimals. Write money using decimals. Convert between pounds and pence. Compare amounts of money. Estimate with money. Calculate and solve problems with money. Years, months, weeks and days.	Understand angles as turns. Identify angles. Compare and order angles. Triangles. Quadrilaterals. Polygons. Lines of symmetry. Complete a symmetric figure. Interpret charts. Comparison, sum ad difference. Interpret line graphs. Draw line graphs. Describe position using coordinates. Plot coordinates. Draw 2-D shapes on a grid. Translate on a grid.

	Add up to two 4-digit numbers (no exchange).	12 times-table and division facts. Multiply by 1 and 0. Divide a number by 1 and itself. Multiply three numbers.	Measure in kilometres and metres. Equivalent lengths. Perimeter on a grid. Perimeter of a rectangle. Perimeter of rectilinear shapes. Find missing lengths. Calculate perimeter of rectilinear shapes. Perimeter of regular and irregular polygons.	Add fractions and mixed numbers. Subtract two fractions. Subtract from whole amounts. Subtract from mixed numbers.	Hours, minutes and seconds. Convert between analogue and digital times. Convert to the 24-hour clock. Convert from the 24-hour clock.	Describe translation on a grid.
Assessment	End of block assessment: Place Value

End of block assessment: Addition and Subtraction | End of block assessment: Area

End of block assessment: Multiplication and Division | End of block assessment: Multiplication and Division

End of block assessment: Length and Perimeter | End of block assessment: Fractions

End of block assessment: Decimals | End of block assessment: Decimals

End of block assessment: Money

End of block assessment: Time | **MTC June 2024**

End of block assessment: Shape

End of block assessment: Statistics

End of block assessment: Position and Direction |
| **Enriching Experiences** | England Rocks TTR
Advent CalenBAR
NSPCC Number Day | | | | | |
| **Interleaved Knowledge** | Flashback 4
Daily fluency | | | | | |

Mathematics Curriculum Map

Tudor Grange Primary Academy Yew Tree

Year 5	Autumn 1 (5.1)	Autumn 2 (5.2)	Spring 1 (5.3)	Spring 2 (5.4)	Summer 1 (5.5)	Summer 2 (5.6)
National Curriculum	Year 5 Programme of Study					
Year 5	Number: Place Value Number: Addition and Subtraction	Number: Multiplication and Division Number: Fractions	Number: Multiplication and Division Number: Fractions	Number: Decimals and Percentages Measurement: Perimeter and Area Statistics	Geometry: Shape Geometry: Position and Direction Number: Decimals	Number: Negative Numbers Measurement: Converting Units Measurement: Volume
Knowledge	Roman numerals to 1000. Numbers to 10,000. Numbers to 100,000. Numbers to 1,000,000. Read and write numbers to 1,000,000. Powers of 10. 10/100/1000/ 10,000/100,000 more or less. Partition numbers to 1,000,000. Compare and order numbers to 100,000. Compare and order numbers to 1,000,000. Round within 100,000. Round within 1,000,000.	Identify multiples. Common multiples. Factors. Common factors. Prime numbers. Square numbers. Cube numbers. Multiply by 10, 100 and 1000. Divide by 10, 100 and 1000. Multiples of 10, 100 and 1000. Find fractions equivalent to a unit fraction. Recognise equivalent fractions. Convert improper fractions to mixed numbers.	Multiply up to a 4-digit number by a 1-digit number. Multiply a 2-digit number by a 2-digit number. 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. Solve problems with multiplication and division.	Decimals up to 2 decimal places. Equivalent fractions and decimals (tenths). Equivalent fractions and decimals (hundreds). Thousandths as fractions. Thousandths as decimals. Order and compare decimals. Round to the nearest whole number. Round to 1 decimal place. Understand percentages. Percentages as fractions.	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.	Understand negative numbers. Count through zero 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. Calculate with timetables. Cubic centimetres. Compare volume.

Mathematics
Curriculum Map

Tudor Grange Primary Academy
Yew Tree

	Add whole numbers with more than four digits. Subtract whole numbers with more than four digits. Round to check answers. Inverse operations. Solve multi-step addition and subtraction problems. Compare calculations. Find missing numbers.	Convert 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 two mixed numbers.	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 quality. Fraction of an amount. Find the whole. Use fractions as operators.	Percentages as decimals. Find 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.	Translation. Translation with coordinates. Lines of symmetry. Reflection in horizontal and vertical lines. Use known facts to add and subtract decimals to 1. Complements 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 and subtract decimals with the same number of decimal places. Decimal sequences. Multiply and divide by 10, 100 and 1000. Multiply and divide decimals. Find missing values.	Estimate volume. Estimate capacity.

Mathematics
Curriculum Map

Tudor Grange Primary Academy
Yew Tree

| Assessment | End of block assessment: Place Value

End of block assessment: Addition and Subtraction | End of block assessment: Multiplication and Division

End of block assessment: Fractions | End of block assessment: Multiplication and Division

End of block assessment: Fractions | End of block assessment: Decimals and Percentages

End of block assessment: Perimeter and Area

End of block assessment: Statistics | End of block assessment: Shape

End of block assessment: Position and Direction

End of block assessment: Decimals | End of block assessment: Negative Numbers

End of block assessment: Converting Units

End of block assessment: Volume |
|---|---|---|---|---|---|---|
| Enriching Experiences | England Rocks TTR
Advent CalenBAR
NSPCC Number Day |||||||
| Interleaved Knowledge | Flashback 4
Daily fluency
Weekly arithmetic focus |||||||

Mathematics
Curriculum Map

Tudor Grange Primary Academy Yew Tree

Year 6	Autumn 1 (6.1)	Autumn 2 (6.2)	Spring 1 (6.3)	Spring 2 (6.4)	Summer 1 (6.5)	Summer 2 (6.6)
National Curriculum			Year 6 Programme of Study			
Year 6	Number: Place Value Number: Addition, Subtraction, Multiplication and Division	Number: Fractions Measurement: Converting Units	Number: Ratio Number: Algebra Number: Decimals	Number: Fractions, Decimals and Percentages Measurement: Area, Perimeter and Volume Statistics	Geometry: Shape Geometry: Position and Direction	Themed Projects Consolidation Problem Solving
Knowledge	Numbers to 1,000,000. Numbers to 10,000,000. Powers of 10. Number line to 10,000,000. Compare and order any integers. Round any integer. Negative numbers. Add and subtract integers. Common factors. Common multiples. Primes to 100. Square and cube numbers. Multiply up to a 4-digit number by a 2-digit number.	Equivalent fractions and simplifying. Equivalent fractions on a number line. Compare and order fractions. Add and subtract simple fractions. Add and subtract any two fractions. Add mixed numbers. Subtract mixed numbers. Multi-step problems. Multiply fractions by integers. Multiply fractions by fractions. Divide a fraction by an integer.	Add or multiply? Use ratio language. Ratio symbol. Ratio and fractions. Scale drawing. Use scale factors. Ratio problems. Proportion problems. 1-step function machines. 2-step function machines. Form expressions. Substitution. Formulae. Form equations. Solve 1-step equations. Solve 2-step equations.	Decimal and fraction equivalents. Fractions as division. Understand percentages. Fractions to percentages. Equivalent fractions, decimals and percentages. Order fractions, decimals and percentages. Percentage of amount. Percentages – missing values. Shape – same area. Area and perimeter. Area of a triangle. Area of parallelogram.	Measure and classify angles. Calculate angles. Vertically opposite angles. Angles in a triangle. Angles in a triangle – missing angles. Angles in a quadrilateral. Angles in polygons. Circles. Draw shapes accurately. Nets of 3D shapes. The first quadrant. Read and plot points in four quadrants. Solve problems with coordinates.	Investigations

Mathematics Curriculum Map

	Solve problems with multiplication. Short division. Division using factors. Long division. Solve multi-step problems. Order of operations. Mental calculations and estimation. Reason from known facts.	Fraction of an amount. Metric measures. Convert metric measures. Calculate with metric measures. Miles and kilometres. Imperial measures.	Find pairs of values. Solve problems with two unknowns. Place value within 1. Integers and decimals. Round decimals. Add and subtract decimals. Multiply by 10, 100 and 1000. Divide by 10, 100 and 1000. Multiply decimals by integers. Divide decimals by integers. Multiply and divide decimals in context.	Volume of a cuboid. Line graphs. Dual bar charts. Read and interpret pie charts. Pie charts with percentages. Draw pie charts. The mean.	Translations. Reflections.	
Assessment	End of block assessment: Place Value

End of block assessment: Addition, Subtraction, Multiplication and Division

KS2 SATS Papers | End of block assessment: Fractions

End of block assessment: Converting Units

KS2 SATS Papers | End of block assessment: Ratio

End of block assessment: Algebra

End of block assessment: Decimals

KS2 SATS Papers | End of block assessment: Fractions, Decimals and Percentages

End of block assessment: Area, Perimeter and Volume

End of block assessment: Statistics

KS2 SATS Papers | KS2 SATS 13.05.24 – 16.05.24

End of block assessment: Shape

End of block assessment: Position and Direction | |

Mathematics
Curriculum Map

Enriching Experiences	England Rocks TTR Advent CalenBAR NSPCC Number Day
Interleaved Knowledge	Flashback 4 Daily fluency Weekly arithmetic focus