

Year 5 Mathematics Yearly Overview

	04/09/23	11/09/23	18/09/23	25/09/23	02/10/23	9/10/23	16/10/23		
Autumn I	Place Value 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	Place Value Powers of 10, find 10/100/1000/10,000/100,000 more or less; partition numbers to 1,000,000; number line to 1,000,000	Place Value Compare and order numbers to 100,000; compare and order numbers to 1,000,000; round to the nearest 10, 100 or 1,000; round within 100,000; round within 1,000,000	Addition and Subtraction Mental strategies; Add whole numbers with more than 4 digits; Subtract whole numbers with more than 4 digits; Round to check answers	Addition and Subtraction Inverse operations (addition and subtraction); Multi-step addition and subtraction problems; Compare calculations; Find missing numbers	Multiplication and Division Multiples; Common multiples; square numbers	Multiplication and Division Multiply by 10, 100 and 1,000; Divide by 10, 100 and 1,000; Multiples of 10, 100 and 1,000.		
	Vocabulary: Roman numerals; digit; place value; column; ones; tens; hundreds; thousands; ten-thousands; hundred-thousands; millions	Vocabulary: Partition; more; less; number line; greater than; less than; value; ones; tens; hundreds; thousands; ten-thousands; hundred-thousands; millions	Vocabulary: Greater than; less than; equal to; ascending; descending; smallest; biggest; round; nearest; value	Vocabulary: Add; subtract; estimate; check; place value; column; ones; tens; hundreds; thousands; ten-thousands; hundred-thousands; millions	Vocabulary: Inverse; add subtract; RUCSAC; compare; order; greater than; less than; estimate; check	Vocabulary: Multiples; multiply; groups of; lots of; arrays; repeated addition; product; multiplicand; square; cubed;	Vocabulary: Powers of 10; multiply; divide; multiples; factors; place value; column; ones; tens; hundreds; ten-thousands; hundred-thousands; millions		
	Mental: Methods for known facts	Mental: Methods for known facts Times tables up to 12 x 12	Mental: Methods for known multiplication and division facts Times tables up to 12 x 12	Mental: Add and subtract numbers mentally (using partitioning, rounding up etc.)	Mental: Mentally adding numbers and estimating answers.	Mental: Using the inverse to check calculations	Mental: Multiplying and dividing by 10, 100, 1000;		
	30/10/23	06/11/23	13/11/23	20/11/23	27/11/23	4/12/23	11/12/23	18/12/23 (Mon – Wed only)	

Autumn 2	Multiplication and Division Factors; Common factors; Prime numbers	Fractions Find fractions equivalent to a unit fraction; find fractions equivalent to a non-unit fraction; recognise equivalent fractions	Fractions Convert between improper fractions and mixed fractions; compare and order fractions less than 1; compare and order fractions greater than 1	Fractions Add and subtract fractions with the same denominator; add fractions within 1; add fractions with a total greater than 1; add to a mixed number; add two mixed numbers	Fractions Subtract fractions; subtract from a mixed number; subtract from a mixed number – breaking the whole; subtract two mixed numbers	Multiplication and Division Multiply 3-digits by 1 digit; Multiply 4-digits by 1-digit; multiply 2-digits (area model)	Multiplication and Division Multiply 2-digits by 2-digits; Multiply 3-digits by 2-digits; Multiply 4-digits by 2-digits	Multiplication and Division Multiply by 2-digit numbers
	Vocabulary: divide; factors; prime number; share equally	Vocabulary: Fraction; numerator; denominator; vinculum; divide; share equally; equivalent; value; simplify; simplest form	Vocabulary: Improper fraction; mixed number; integer; whole number; numerator; denominator; vinculum; divide; value; greater than; less than; simplify	Vocabulary: Add; subtract; fractions; simplify; numerator; denominator; vinculum; mixed number; whole number; integer; improper fraction	Vocabulary: Add; subtract; fractions; simplify; numerator; denominator; vinculum; mixed number; whole number; integer; improper fraction	Vocabulary: Multiply; partition; multiplicand; groups of; lots of; place value; ones, tens, hundreds, thousands, ten-thousands; hundred-thousands; millions	Vocabulary: Multiply; partition; multiplicand; groups of; lots of; place value; ones, tens, hundreds, thousands, ten-thousands; hundred-thousands; millions	Vocabulary: Multiply; partition; multiplicand; groups of; lots of; place value; ones, tens, hundreds, thousands, ten-thousands; hundred-thousands; millions
	Mental: Multiples and factors, prime numbers	Mental: Multiples and factors	Mental: Multiples and factors	Mental: Multiples and factors	Mental: Use rounding to check calculations	Mental: Multiplying numbers by 0	Mental: Multiplication facts up to 12 x 12 and division facts.	Mental: Multiplication facts up to 12 x 12 and division facts.
	08/01/24	15/01/24	22/01/24	29/01/24	05/02/23	12/2/24		
Spring 1	Multiplication and Division Divide 3-digits by 1-digit; Divide 4-digits by 1-digit; Divide with remainders	Fractions Multiply unit fractions by an integer; Multiply non-unit fractions by an integer; Multiply mixed	Fractions Calculate fractions of a quantity; Calculate fractions of an amount; Using fractions as operators	Decimals and Percentages Decimals up to 2d.p.; Decimals as fractions; Understand thousandths;	Decimals and Percentages Thousandths as decimals; Rounding decimals; Order and compare decimals	Decimals and percentages Understand percentages; Percentages as fractions and decimals; Equivalent FDP		

		fractions by an integer						
	Vocabulary: Divide; dividend; divisor; quotient; groups of; lots of; shared equally; factors; inverse;	Vocabulary: Unit fraction; numerator; denominator; integer; whole number; mixed fraction; improper fraction; multiply	Vocabulary: Multiply; divide; fraction; numerator; denominator; vinculum; shared equally;	Vocabulary: Decimal point; decimal place; convert; equivalent; fraction; tenths; hundredths; thousandths	Vocabulary: Decimal point; decimal place; convert; equivalent; fraction; tenths; hundredths; thousandths; compare; greater than; less than; equal to	Vocabulary: Percent; decimal; fraction; equivalent; numerator; denominator; vinculum; hundredth; tenth		
	Mental: Multiplication facts up to 12 x 12 and division facts.	Mental: Doubling/ Halving, estimation, inverse.	Mental: Doubling/ Halving, estimation, inverse.	Mental: Number bonds up to 100	Mental: Number bonds up to 100	Mental: Number bonds up to 100		
	26/02/24	4/03/24	11/03/24	18/03/24	25/03/24			
Spring 2	Perimeter and Area Measure perimeter; Perimeter on a grid; Perimeter of rectangles and rectilinear shapes; Calculate perimeter	Perimeter and Area Area of rectangles; Area of compound shapes; Area of irregular shapes	Statistics Interpret charts; comparison, sum and difference; Read and interpret line graphs, draw line graphs, use line graphs to solve problems	Statistics Read and interpret tables; two-way tables; timetables	Shape Identify angles, compare and order angles; Measure angles in degrees; Measure angles with a protractor;			
	Vocabulary: Perimeter; area; rectangle; rectilinear; length; cm; m; mm	Vocabulary: Area; rectangle; compound; regular; irregular; multiply; array	Vocabulary: Interpret; data; survey; sum; difference; line graph; bar graph; pictogram; table; x-axis; y-axis; along the corridor and up the stairs	Vocabulary: Tables; timetable; hour; minute; row; column; data; survey; sum; difference	Vocabulary: Angles; obtuse; acute; right angle; reflex angles; degrees; protractor; baseline			
	Mental: Multiplying 3 numbers e.g. 3 x 3 x 3	Mental: Multiplying 3 numbers e.g. 3 x 3 x 3	Mental: Mental strategies for addition and subtraction	Mental: Mental strategies for addition and subtraction	Mental: Mental strategies for the four			

					operations within 360 (angles)			
	15/04/24	22/04/24	29/04/24	06/05/24	13/05/24	20/05/24		
Summer 1	Shape Drawing lines and angles accurately; Calculating angles on a straight line; Calculating angles around a point	Shape Triangles and quadrilaterals; Calculating lengths and angles in shapes; Regular and irregular polygons; Reasoning about 3-D shapes	Position and Direction Describe position and draw on a grid; Position in the first quadrant; Translation; Translation with coordinates	Position and Direction Lines of symmetry; Complete a symmetric figure; Reflection; Reflection with coordinates	Decimals Adding decimals within 1; subtracting decimals within 1; Complements to 1; adding decimals – crossing the whole	Decimals Adding and subtracting decimals with the same number of decimal places; Adding and subtracting decimals with a different number of decimal places		
	Vocabulary: Angles; degrees; protractor; measure; baseline; acute; obtuse; right angles;	Vocabulary: Triangle; quadrilateral; angles; acute; obtuse; regular; irregular; polygon; 2-D; 3-D; length; width; circle; square; rectangle; pentagon; hexagon; heptagon; octagon etc.	Vocabulary: Coordinates; x-axis; y-axis; along the corridor and up the stairs; quadrant; translate; position; rotate;	Vocabulary: Symmetry; reflection; translate; position; rotate; coordinates; x-axis; y-axis; along the corridor and up the stairs	Vocabulary: Decimal number; decimal place; decimal point; tenths; hundredths; thousandths; complement; add; subtract whole;	Vocabulary: Decimal number; decimal place; decimal point; tenths; hundredths; thousandths; complement; add; subtract whole;		
	Mental: Mental strategies for the four operations within 360 (angles)	Mental: Mental strategies for the four operations within 360 (angles)	Mental: Mental strategies for the four operations within 360 (angles)	Mental: Mental strategies for the four operations within 360 (angles)	Mental: Inverse to check calculations	Mental: Inverse to check calculations		
	03/06/24	10/06/24	17/06/24	24/06/24	01/07/24	08/07/24	17/7/24 (Mon – Thu only)	
Summer 2	Decimals Adding and subtracting wholes and decimals; Decimal	Negative numbers Real life application of	Converting units Kilometres; Kilograms and kilometres;	Converting units Imperial units; Converting units	Volume What is volume? Compare volume;	Consolidation This week to act as a buffer for any units that over run or to revisit	Consolidation This week to act as a buffer for any units that over run or to revisit	

	sequences; Multiplying and dividing decimals by 10, 100 and 1000	negative numbers; Number line; Subtract integers crossing 0; add integers crossing 0	Millimetres and millilitres; Metric units	of time; Timetables	Estimate volume; Estimate capacity	concepts children struggled with	concepts children struggled with	
	Vocabulary: Whole; decimal; sequence; add; subtract; multiply; divide; powers of 10; decimal point; decimal place;	Vocabulary: Integer; negative number; number line; add; subtract; cross 0;	Vocabulary: Kilometre; metre; centimetre; millimetre; litres; millilitres; grams; kilograms; convert	Vocabulary: Imperial; metric; timetables; convert; am; pm; 12-hour; 24-hour;	Vocabulary: Volume; capacity; scale; greater than; less than; estimate;	Vocabulary:	Vocabulary:	
	Mental: inverse to check calculations	Mental: Mental strategies for addition and subtraction involving decimals	Mental: Multiplying by 10, 100 and 1000	Mental: Multiplying by 10, 100 and 1000, 15, 30 and 60 times tables (to support times)	Mental: Multiplying by 10, 100 and 1000	Mental: Review of all multiplication and division facts with speed test.	Mental: Review of all multiplication and division facts with speed test.	

