Fairfield Road Primary School

Year 5 Maths Long Term Plan 2026 - 2027

	1	2	3	4	5	6	7	8		9	10	11	12	13	14	15
AUTUMN	**Number and Place Value** Place Value Roman Numerals Negative and Positive Numbers			**Addition and Subtraction** Addition and Subtraction			**Multiplication and Division** Multiplication and Division A		HALF TERM	**Multiplication and Division** Multiplication and Division A		**FDP** Fractions A				CHRISTMAS
	1	2	3	4	5	6		7	8	9	10	11				
SPRING	**Multiplication and Division** Multiplication and Division B			**FDP** Fractions B		**FDP** Decimals and Percentages	HALF TERM	**FDP** Decimals and Percentages	**Measurement** Perimeter and Area		**Statistics** Statistics					
	1	2	3	4	5	6		7	8	9	10	11	12	13		
SUMMER	**Geometry – Properties of Shape** Shape			**Geometry – Position and Direction** Position and Direction		**FDP** Decimals	HALF TERM	**FDP** Decimals		**Measurement** **Measurement** Converting Units		**Measurement** Volume		FINAL WEEK		

Mathematics strand	WRM unit	Small Steps	NC objectives
Number and Place Value	Place Value and Negative Numbers	• 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 9 Number line to 1,000,000 • Step 10 Compare and order numbers to 100,000 • Step 11 Compare and order numbers to 1,000,000 • Step 12 Round to the nearest 10, 100 or 1,000 • Step 13 Round within 100,000 • Step 14 Round within 1,000,000 • Step 15 Understand negative numbers • Step 16 Count through zero in 1s • Step 17 Count through zero in multiples • Step 18 Compare and order negative numbers • Step 19 Find the difference	• count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 • interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero KEY • read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit KEY • round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 • solve number problems and practical problems that involve all of the above • read Roman numerals to 1000 (M) and recognise years written in Roman numerals.
Addition and Subtraction	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	• solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why. • use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy • add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) KEY • add and subtract numbers mentally with increasingly large numbers KEY
Multiplication and Division	Multiplication and Division A	• 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	• solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes KEY • solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates. KEY • establish whether a number up to 100 is prime and recall prime numbers up to 19 • identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers KEY • know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers • recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}) • multiply and divide numbers mentally using known facts

			• multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
FDP	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	• identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths • Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number • Compare and order fractions whose denominators are all multiples of the same number KEY • Add and subtract fractions with the same denominator, and denominators that are multiples of the same number
Multiplication and Division	Multiplication and Division B	• Step 1 Multiply up to a 4-digit number by a 1-digit number • Step 2 Multiply a 2-digit number by a 2-digit number (area model) • Step 3 Multiply a 2-digit number by a 2-digit number • Step 4 Multiply a 3-digit number by a 2-digit number • Step 5 Multiply a 4-digit number by a 2-digit number • Step 6 Solve problems with multiplication • Step 7 Short division • Step 8 Divide a 4-digit number by a 1-digit number • Step 9 Divide with remainders • Step 10 Efficient division • Step 11 Solve problems with multiplication and division	• Multiply numbers up to four digits by a 1- or 2-digit number using a formal written method, including long multiplication for 2-digit numbers • Divide up to four digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context • Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
FDP	Fractions B	• Step 1 Multiply a unit fraction by an integer • Step 2 Multiply a non-unit fraction by an integer • Step 3 Multiply a mixed number by an integer • Step 4 Calculate a fraction of a quantity • Step 5 Fraction of an amount • Step 6 Find the whole • Step 7 Use fractions as operators	• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams
FDP	Decimals and Percentages	• Step 1 Decimals up to 2 decimal places • Step 2 Equivalent fractions and decimals (tenths) • Step 3 Equivalent fractions and decimals (hundredths) • Step 4 Equivalent fractions and decimals • Step 5 Thousandths as fractions • Step 6 Thousandths as decimals • Step 7 Thousandths on a place value chart	• Read, write, order and compare numbers with up to 3 decimal places KEY • Read and write decimal numbers as fractions • Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths

		• Step 8 Order and compare decimals (same number of decimal places) • Step 9 Order and compare any decimals with up to 3 decimal places • Step 10 Round to the nearest whole number • Step 11 Round to 1 decimal place • Step 12 Understand percentages • Step 13 Percentages as fractions • Step 14 Percentages as decimals • Step 15 Equivalent fractions, decimals and percentages	• Solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25. KEY • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents • Solve problems involving numbers up to 3 decimal places • Round decimals with 2 decimal places to the nearest whole number and to 1 decimal place • Recognise the per cent symbol (%) and understand that per cent relates to “number of parts per 100”, and write percentages as a fraction with denominator 100, and as a decimal fraction
Measurement	Perimeter and Area	• Step 1 Perimeter of rectangles • Step 2 Perimeter of rectilinear shapes • Step 3 Perimeter of polygons • Step 4 Area of rectangles • Step 5 Area of compound shapes • Step 6 Estimate area	• Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres KEY • Calculate and compare the area of rectangles (including squares), including using standard units, square centimetres (cm2) and square metres (m2), and estimate the area of irregular shapes KEY
Statistics	Statistics	• Step 1 Draw line graphs • Step 2 Read and interpret line graphs • Step 3 Read and interpret tables • Step 4 Two-way tables • Step 5 Read and interpret timetables	• Solve comparison, sum and difference problems using information presented in a line graph • Complete, read and interpret information in tables, including timetables KEY
Geometry – Properties of Shape	Shape	• Step 1 Understand and use degrees • Step 2 Classify angles • Step 3 Estimate angles • Step 4 Measure angles up to 180° • Step 5 Draw lines and angles accurately • Step 6 Calculate angles around a point • Step 7 Calculate angles on a straight line • Step 8 Lengths and angles in shapes • Step 9 Regular and irregular polygons • Step 10 3-D shapes	• Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles • Draw given angles, and measure them in degrees (°)KEY • Identify: angles at a point and 1 whole turn (total 360°); angles at a point on a straight line and half a turn (total 180°) • Use the properties of rectangles to deduce related facts and find missing lengths and angles • Distinguish between regular and irregular polygons based on reasoning about equal sides and angles KEY • Identify 3-D shapes, including cubes and other cuboids, from 2-D representations
Geometry – Position and Direction	Position and Direction	• Step 1 Read and plot coordinates • Step 2 Problem solving with coordinates • Step 3 Translation • Step 4 Translation with coordinates • Step 5 Lines of symmetry • Step 6 Reflection in horizontal and vertical lines	• Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed
FDP	Decimals	• Step 1 Use known facts to add and subtract decimals within 1 • Step 2 Complements to 1 • Step 3 Add and subtract decimals across 1 • Step 4 Add decimals with the same number of decimal places	• Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents • Solve problems involving number up to 3 decimal places • Read, write, order and compare numbers with up to 3 decimal places KEY

		• Step 5 Subtract decimals with the same number of decimal places • Step 6 Add decimals with different numbers of decimal places • Step 7 Subtract decimals with different numbers of decimal places • Step 8 Efficient strategies for adding and subtracting decimals • Step 9 Decimal sequences • Step 10 Multiply by 10, 100 and 1,000 • Step 11 Divide by 10, 100 and 1,000 • Step 12 Multiply and divide decimals – missing values	• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000
Measurement	Converting Units	• Step 1 Kilograms and kilometres • Step 2 Millimetres and millilitres • Step 3 Convert units of length • Step 4 Convert between metric and imperial units • Step 5 Convert units of time • Step 6 Calculate with timetables	• Convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre] • Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints • Solve problems involving converting between units of time
Measurement	Volume	• Step 1 Cubic centimetres • Step 2 Compare volume • Step 3 Estimate volume • Step 4 Estimate capacity	• Estimate volume [for example, using 1 cm3 blocks to build cuboids (including cubes)] and capacity • Estimate volume and capacity [for example, using water]