St Walburga's Catholic Primary School
Year 5 Maths Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Autumn 1	Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000.	Read, write, order and compare numbers to at least 1 000 000, and determine the value of each digit. Solve number problems and practical problems that involve place value.	Interpret negative numbers in context, and count forwards and backwards with positive and negative whole numbers, including through zero.	Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.	Add numbers mentally with increasingly large numbers. Add numbers with more than 4 digits, using formal written methods of columnar addition and subtraction where appropriate.	Subtract numbers mentally with increasingly large numbers. Subtract numbers with more than 4 digits, using formal written methods of columnar addition and subtraction where appropriate.	Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy. Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
Autumn 2	Complete, read, and interpret information in: • tables, including timetables	Solve comparison, sum and difference problems using information presented in a line graph.	Multiply and divide numbers mentally drawing upon known facts, including multiplying and dividing whole numbers and those involving decimals by 10, 100 and 1000.	Multiply numbers up to 4-digits by a 1-digit or 2-digit number using formal written methods, including long multiplication for 2-digit numbers.	Multiply numbers up to 4-digits by a 1-digit or 2-digit number using formal written methods, including long multiplication for 2-digit numbers.	Divide numbers up to 4-digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context.	ASSESSMENT WEEK • Use question analysis to plan morning activities/lesson starters for the next term.
Spring 1	Solve problems involving addition, subtraction, multiplication and division and a combination of these.	Measure and calculate the perimeter of composite rectilinear shapes in cm and m.	Calculate and compare the area of rectangles (including squares and using cm^2 and m^2) and estimate the area of irregular shapes.	Identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers. Know and use the vocabulary of prime numbers, prime factors, and composite (non-prime) numbers. Establish whether a number up to 100 is a prime and recall prime numbers up to 19.	Recognise and use square numbers (^{2}) and cube numbers (^{3}) and notation.	Solve problems involving multiplication and division, including using knowledge of factors and multiples, squares, and cubes. Solve problems involving multiplication and division, including scaling by simple fractions, and problems involving simple rates.	

Spring 2	Practise counting forwards and backwards in simple fractions. Compare and order fractions whose denominators are all multiples of the same number.	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number.	Add and subtract fractions with the same denominator and multiples of the same number.	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	Find fractions of numbers and quantities.	Read, write, order, and compare numbers with up to three decimal places. Round decimals with two decimal places to the nearest whole number and to one decimal place.
Summer 1	Practise adding and subtracting decimals, including a mix of whole numbers and decimals.	Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100'. Write percentages as a fraction with denominator 100 as a decimal fraction.	Identify, name, and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths. Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	Read and write decimal numbers as fractions. Solve problems involving numbers up to three decimal places.	Solve problems which require knowing percentage and decimal equivalents of ½, ¼, $^1/_5$, $^2/_5$, $^4/_5$ and those with a denominator of a multiple of 10 or 25.	Identify 3D shapes, including cubes and cuboids, from 2D representations. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles. Use the properties of rectangles to deduce related facts and find missing lengths and angles.
Summer 2	Know angles are measured in degrees; estimate and compare acute, obtuse, and reflex angles. Identify: • Angles at a point on a straight line and half a turn (total 180°) • Angles at a point and one whole turn (total 360°) • Other multiples of 90° Draw given angles and measure them in degrees.	END OF YEAR ASSESSMENT	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.	Read Roman Numerals to 1000 (M) and recognise years written in Roman Numerals.	Convert between different units of metric measure (e.g., km/m; cm/m; cm/mm; g/kg; l/ml). Solve problems involving converting between units of time. Understand and use approximate equivalences between metric units and common imperial units, such as inches, pounds, and pints.	Estimate volume (e.g., using 1 cm³ blocks to build cubes and cuboids) and capacity (e.g., using water). Use all four operations to solve problems involving measure using decimal notation, including scaling.	END OF TERM MATHS/ CATCH UP WEEK