

Year 5 Non-Negotiables 2023-2024

Mathematics guidance: year 5 (publishing.service.gov.uk)

	Objective
Autumn	- 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 - Round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000 - Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 - Multiply and divide multiples of 10 by 10, 100 and 1000 - Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers. - Recall prime numbers up to 19 - Recognise and use square numbers and cube numbers - Recognise and use thousandths - Read, write, order and compare numbers with up to three decimal places - Round decimals with two decimal places - Read Roman numerals to 1000 (M). - Order numbers beyond 1000 - Compare numbers with 2 DP - X and $\div$ facts up to 12×12 - Recognise equivalents of $\frac{1}{2}$ $\frac{1}{4}$ $\frac{3}{4}$
Spring	- Convert between units of measure, including using common decimals and fractions - Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth), for example: $8+6 = 14$ so $0.8+0.6 = 1.4$ & $3 \times 4 = 12$ so $3 \times 0.4 = 1.2$ and $0.03 \times 4 = 0.12$ - Recognise decimal fraction equivalents for $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$ - Count forwards and backwards with positive and negative whole numbers, including through zero - Add and subtract whole numbers with more than 4 digits, including using formal written methods - Multiply numbers up to 4 digits by a one- or two-digit number - Divide numbers up to 4 digits by a one-digit number - Identify, name and write equivalent fractions of a given fraction + and – up to 4 digits using column method
Summer	- Find non-unit fractions of quantities - Multiply proper fractions and mixed numbers by whole numbers - Use rounding to check answers - Recognise mixed numbers and improper fractions and convert from one form to the other - Compare angles, estimate and measure angles in degrees ($^{\circ}$) and draw angles of a given size. - Solve problems involving converting between units of time - Solve problems involving duration of time - Divide a number with up to 4 digits by a one-digit number using a formal written method, and interpret remainders appropriately for the context. - Multiply any whole number with up to 4 digits by any one-digit number using a formal written method